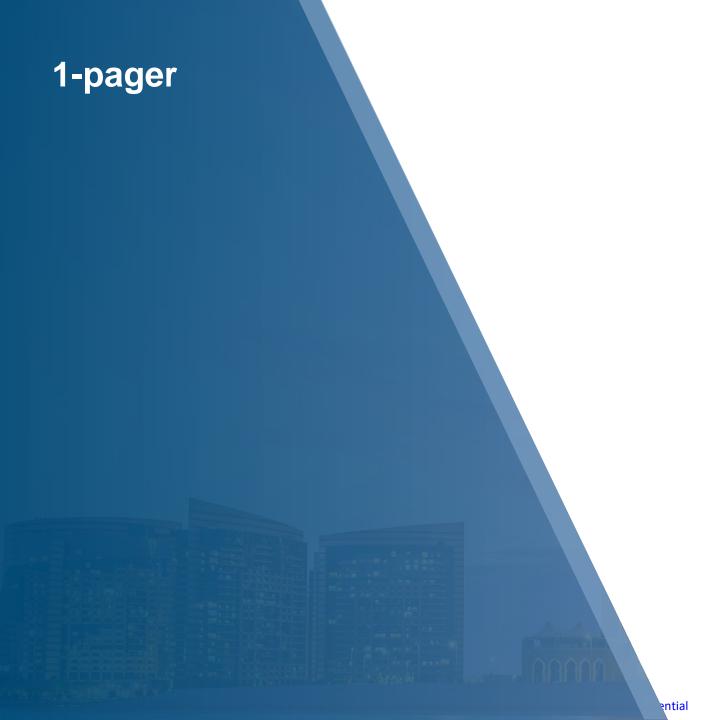


Investing in Abu Dhabi

Investment Teaser: HVAC Systems





Abu Dhabi Government Demand Localization: HVAC Systems Investment Opportunity

Local and regional import substitution potential



- The **Abu Dhabi Government Demand Localization** program aims to **leverage the Government's purchasing power \$37Bn by 2028** in scope for the program to Localize high demand products and services and thus further develop the local business ecosystem.
- Access to Government demand is designed to act as a springboard for new investors as they scale to capture local and regional demand.



- Establish a **medium-sized facility with parallel assembly and production lines** for a comprehensive HVAC (Heating, Ventilation, and Air Conditioning) product portfolio, focused on Air Conditioning
- Focus on import substitution of finished goods, with additional potential upside from aftermarket operations (not accounted for in the calculations)
- Opportunity to serve the local UAE market, as well as to export to the broader GCC and MENA regions, with the exception of Saudi Arabia

Target Addressable Market, USD Bn Imports of assembled AC units for local consumption 2.1 1.6 UAE 0.4 Rest of MENA, excl. KSA¹ 1.2 1.6 2023 2028²

Indicative Business Case:

Greenfield Project for Medium-Sized HVAC Assembly and Manufacturing Plant

\$155Mn Revenue Potential

- Substitution of 12-15% of UAE imports of assembled units
- Substitution of 3-5% of regional (MENA, ex. KSA) imports of assembled units
- 50/50% implied split of local sales to exports

~15% IRR with further upside potential

 Return on investor's equity contribution, assuming 60% of required CAPEX financed through local banks

\$80Mn CAPEX (60% financed)

 Medium-sized facility (~40,000m2) with assembly capabilities across all product types and in-house manufacturing of heat exchangers

7 years Payback

 Estimated time to recover the equity investment



- Framework Agreements
- Preferred Vendor List

Key Government Buyers (c.a. USD 37Mn p.a.)

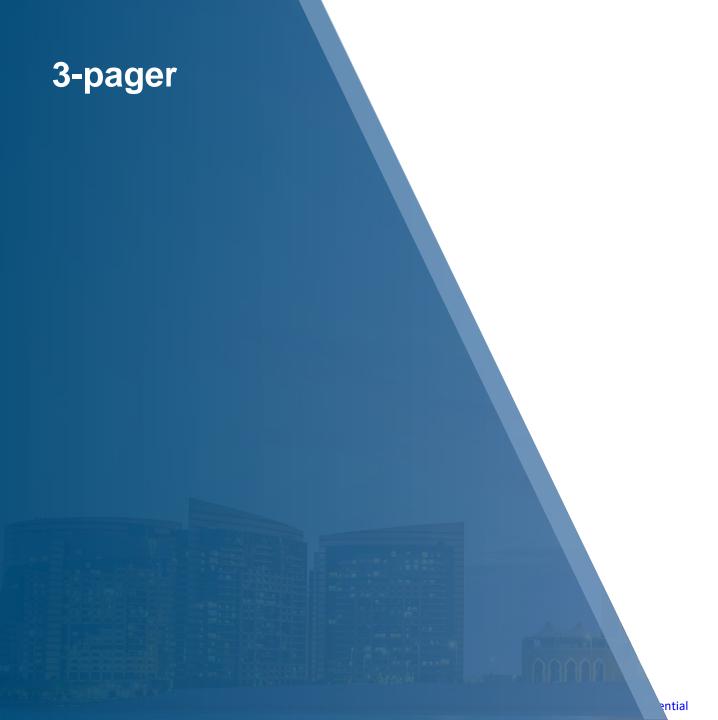








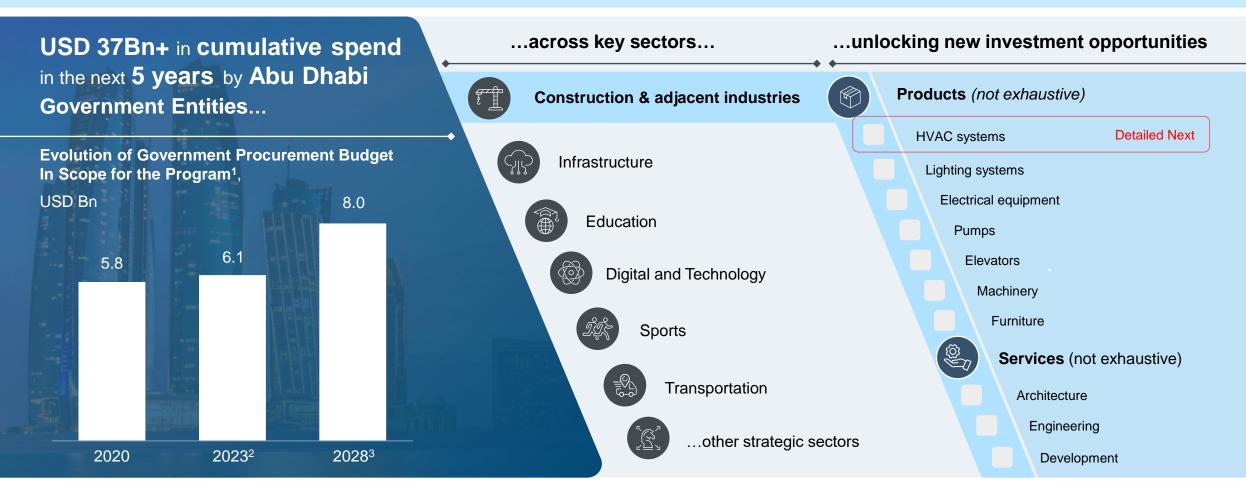




Abu Dhabi Government Demand Localization Program

Investment opportunities backed by the Government's purchasing power

The Abu Dhabi Government Demand Localization program aims to leverage the Government's purchasing power to Localize high demand products and services. This contributes to Abu Dhabi's goals of expanding non-oil contribution to GDP and develop world-class business and talent ecosystems, while acting as an initial springboard for investors' sustainable growth in the UAE and in the region.



¹⁾ Potential for further budget increase from scope expansion. 2) On track to reach or exceed budgeted procurement for 2023. 3) Estimated based on government strategy, project pipeline, and macro-economic forecasts Source: Abu Dhabi Department of Government Enablement, UN Comtrade, Abu Dhabi Customs

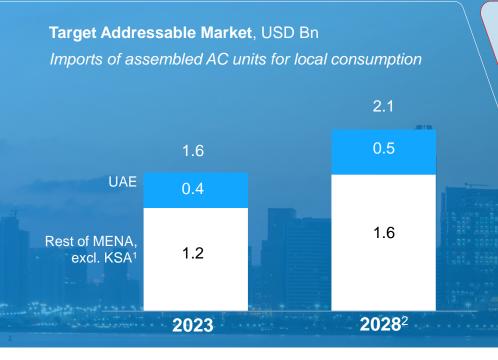
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Opportunity Business Case: HVAC Systems

Local and regional import substitution potential



- Establish a **medium-sized facility with parallel assembly and production lines** for a comprehensive HVAC (Heating, Ventilation, and Air Conditioning) product portfolio, focused on Air Conditioning
- Covers key types of indoor and outdoor units
- Serves key customer segments (commercial/industrial and residential)
- Focus on import substitution of finished goods, with additional potential upside from aftermarket operations (not accounted for in the calculations)
- Opportunity to serve the local UAE market, as well as to export to the broader GCC and MENA regions, with the exception of Saudi Arabia



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Detailed Opportunity Card in Appendix

1) As a conservative scenario, exports to the Kingdom of Saudi Arabia are considered as low probability. 2) Estimated imports based on expert input and market reports, assuming current levels of local production Source: UN Comtrade, Abu Dhabi Customs, Abu Dhabi Department of Economic Development, Abu Dhabi Department of Government Enablement

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Access to Government Procurement: HVAC Systems

Additional investor incentives

The Abu Dhabi Government is an end buyer of HVAC systems, mainly through its development projects of residential, cultural, and educational facilities.

In addition to the incentives offered to all Abu Dhabi investors, the Government can offer additional incentives to HVAC investors.

Preferred Vendor List Inclusion on the preferred vendor list of the Abu Dhabi Government Entities, ensuring **HVAC investors** are **invited to all relevant tenders**.

Framework Agreements¹

Inclusion on an Abu Dhabi Government framework agreement giving HVAC investors further access to streamlined government HVAC procurement, with potential for preferred payment terms.

Key Government Buyers



دائرة الثقافة والسياحة DEPARTMENT OF CULTURE AND TOURISM



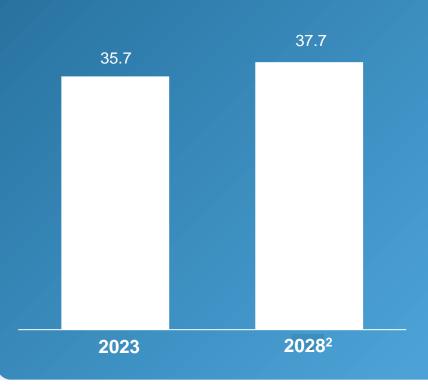




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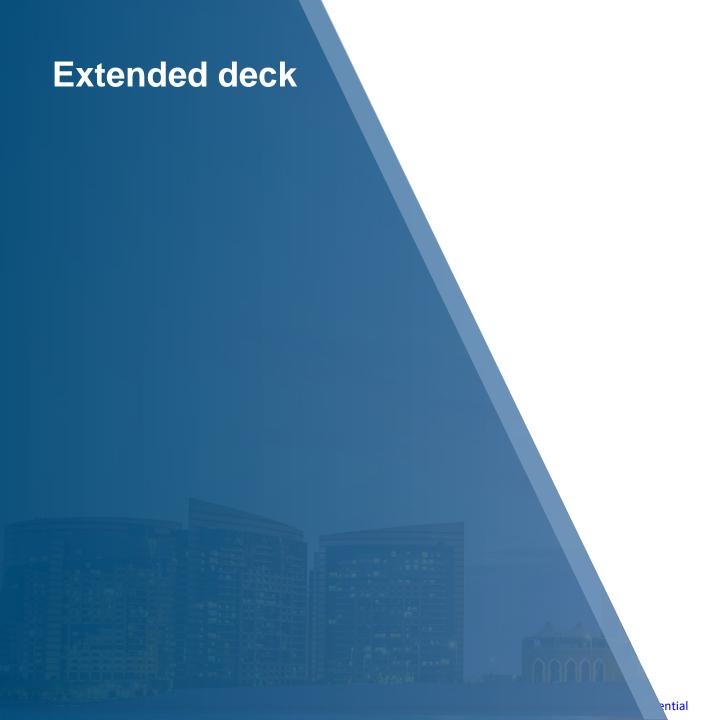
Abu Dhabi Government Indirect Procurement, USD Mn



¹⁾ The Department of Government Enablement (DGE) will lead the implementation of the framework agreement in coordination with the selected investor. DGE's mandate is to put in place government wide framework agreements with access to all government entities.

2) Estimated figures, given Government spend is indirect; estimation based on cost breakdown of Tier-1 suppliers of directly procured services covering in-scope product in their value chain.

Source: Abu Dhabi Department of Government Enablement, Abu Dhabi Department of Finance, expert interviews



Executive Summary

1
Abu Dhabi 2030:
Economic and
Social Powerhouse

- Economic powerhouse accounting for half of UAE's GDP
- World class digital and physical infrastructure
- Top investment destination with an established business ecosystem and special investment zones

Abu Dhabi
Government:
Catalyst for Investor
Success

- Comprehensive business incentive schemes
- Government-driven investment programs across strategic sectors
- Significant government purchasing power, with USD 37Bn in cumulative procurement budget by 2028

3
Investment
Opportunity:
HVAC¹ Systems

- Opportunity to substitute local and regional imports a total addressable market of USD 2.1Bn by 2028 – through the assembly and production of HVAC systems
- Access to government procurement through Framework Agreements and Preferred Vendor Lists
- Attractive business case, with USD 155Mn+ in revenue potential and 15% expected IRR



Abu Dhabi at a Glance GCC's economic and social powerhouse





Abu Dhabi's GDP is USD 299Bn¹, >50% of UAE's GDP and 53% non-oil contribution



No.1 in West Asia region by FDI, with USD 21Bn inflows in the UAE in 2021





No. 1 for ease of doing business in the Middle East and 10th globally



1,000+ global destinations connected to Khalifa Port



2nd fastest 5G connection in the world and Smartest City in MENA



Global hub - 80% of the world's population within an eight-hour flight



World-class education home to the world's first Al university



Consistently ranked as the most livable city in MENA and safest city in the world



Investment Outlook

Attractive investment destination with streamlined procedures

The Abu Dhabi Advantage

- 100% foreign ownership of companies
- 94 tax agreements with foreign nations
- 9% corporate and income tax with low VAT rate of 5%
- Special economic zones with up to 100% profit repatriation
- No minimum requirement company setup
- Stable currency pegged to the US Dollar (USD 1 = AED 3.6725)
- UAE FDI inflow climbed to USD 21Bn in 2021
- Readily available capital for state-of-the-art technology
- Electricity generation capability and inexpensive energy
- Capital availability: equity/debt via local market venture funds, banks, family offices, private equity funds, sovereign wealth funds (among the largest in the world)
- Attractive leasing of office and warehouse space in addition to competitive prices for land and utilities
- AA credit rating¹ for Abu Dhabi's Government, reflecting high GDP per capita and strong fiscal and external metrics

Investment Ecosystem Enablers (not exhaustive)





















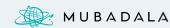








Key Enabling Semi-Government Entities (Not exhaustive)













Investor Incentives

Attractive business and regulatory environment









Development Financing



Export Financing



Supply Chain Financing



Public Private Partnerships



Equity Market (IPO fund)

Key PartnersAbu Dhabi Industrial Development Bureau network of 10+ banks

- Abu Dhabi IPO Fund
- Etihad Credit Insurance and Abu Dhabi Exports Office
- Khalifa Fund and Emirates Development Bank
- Abu Dhabi Channel Partners





All services are accessible to investors through TAMM, Abu Dhabi's unified digital system for government services and information



Government-Led Investment Programs Unified effort to identify key investment opportunities in Abu Dhabi

The Abu Dhabi government is committed to identifying and providing attractive investment opportunities for local and international investors







Investment Scope



Abu Dhabi Government Demand Localization

Services and end-product manufacturing in sectors with high government spend

- Construction & adjacent industries
 (e.g., machinery, electrical equipment)
- Infrastructure
- Education
- Digital & Technology
- Transportation
- Sports
- ...other strategic sectors

Detailed Next

Abu Dhabi Channel Partners

End-product manufacturing in strategic industrial sectors

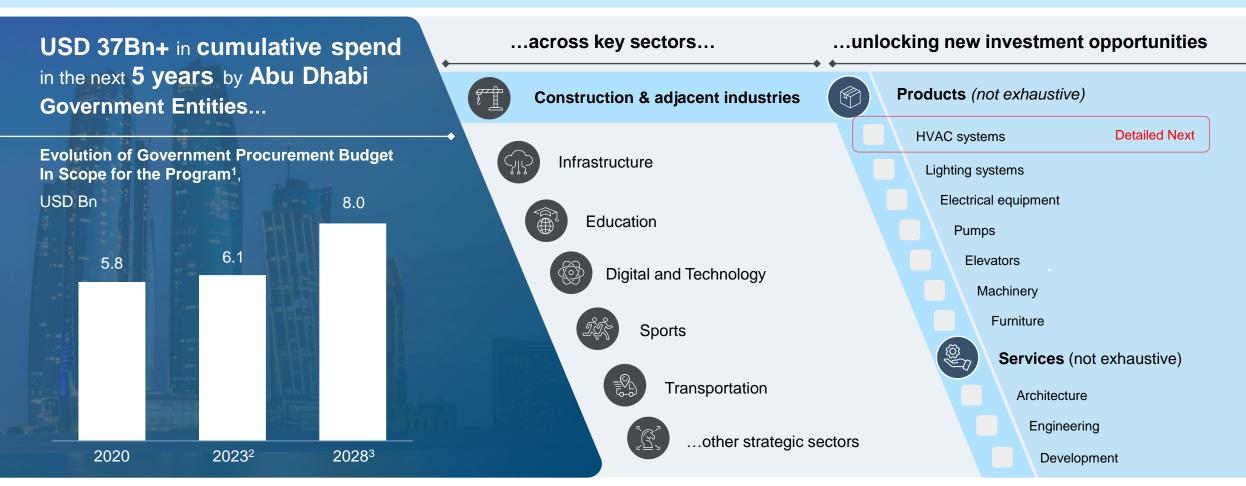
- Chemicals
- Food processing
- Machinery
- Pharmaceuticals
- Transportation
- Electrical equipment
- Electronics



Abu Dhabi Government Demand Localization

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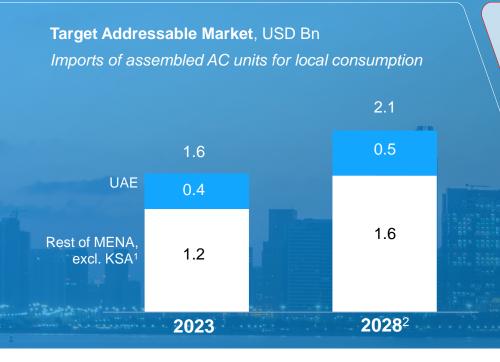
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Opportunity Business Case: HVAC Systems Local and regional import substitution potential



- Establish a **medium-sized facility with parallel assembly and production lines** for a comprehensive HVAC (Heating, Ventilation, and Air Conditioning) product portfolio, focused on Air Conditioning
- Covers key types of indoor and outdoor units
- Serves key customer segments (commercial/industrial and residential)
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Access to Government Procurement: HVAC Systems Additional investor incentives

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Key Government Buyers



حائـرة الثقـافـة والسياحـة DEPARTMENT OF CULTURE AND TOURISM

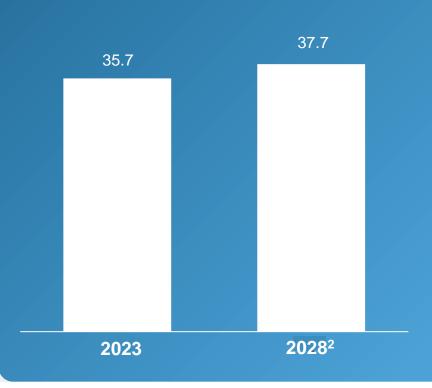


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Abu Dhabi Government Indirect Procurement, USD Mn



¹⁾ The Department of Government Enablement (DGE) will lead the implementation of the framework agreement in coordination with the selected investor. DGE's mandate is to put in place government wide framework agreements with access to all government entities.

2) Estimated figures, given Government spend is indirect; estimation based on cost breakdown of Tier-1 suppliers of directly procured services covering in-scope product in their value chain.

Source: Abu Dhabi Department of Government Enablement, Abu Dhabi Department of Finance, expert interviews

Take your first steps into Abu Dhabi



Next Steps

- 1. Review investment materials
- 2. Meet ADIO
- 3. Confirm interest (MoU)
- 4. Start feasibility analysis



October 20th - October 27th

October 27th - November 3rd

November 3rd – November 10th

November 10th - November 17th



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investinabudhabi.gov.ae







InvestAbuDhabi



Abu Dhabi Investment Office

APPENDIX

HVAC Systems

Detailed Opportunity Card

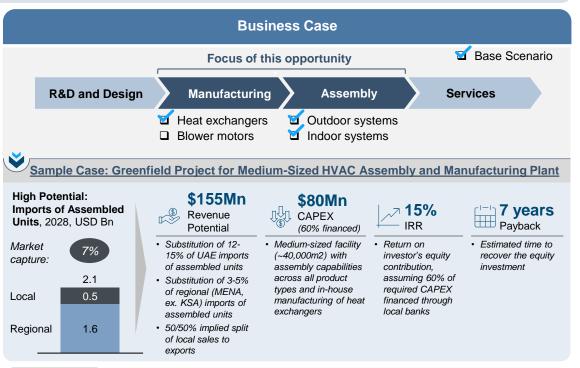




Executive Summary

Backward integration of HVAC systems, with standalone assembly or assembly and manufacturing of select components, with the objective to fill local and regional supply gaps through import substitution.

Market Insights Imports for Local Consumption, Assembled Units and Parts, USD Bn 2021 2028 Significant local and regional supply +8% gaps, with import substitution (+9%) +5% +3% potential across MENA expected to 2.7 2.0 reach USD 7Bn by 2028; USD +35Bn 1.5 1.0 1.2 1.2 1.2 0.9 cumulative in the next 5 years **Demand from Abu Dhabi** Government entities is expected to UAE KSA Rest of GCC Rest of MENA reach USD ~38Mn by 2028; USD 180Mn cumulative in the next 5 years Highest export potential V **UAE Overview** High Potential for Available Local Players for Established Regional Logistics Hub Potential JVs Incremental Localization Current Localization Levels. Assemblers / Manufacturers **UAE HVAC** Assembly and Manufacturing Rest of Exports and 謂 TROSTEN World Re-Exports by Saudi Country, 10-15% Agents/Limited assemblers Arabia 2021,% Kuwait DAIKIN · Global HVAC supply chains are well established, with production in low-cost hubs (Asia, Latin America) and service teams in buyer countries, including the UAE Local assemblers supply only ~15% of the market demand, mostly in small, lower complexity residential split systems (both indoor and outdoor units) · Established local and regional developers prefer foreign suppliers given perceived quality, speed of delivery and project size requirements



Abu Dhabi Value Proposition

- Preferential treatment for local production through Abu Dhabi Golden List and access to local and federal indirect government procurement
- Enhanced cost competitiveness through various incentive schemes, such as Energy Tariff, Land Rent, Smart Manufacturing programs
- Access to low-cost financing for operations and trade through the Abu Dhabi Industrial Development Bureau banks network, Abu Dhabi Exports Office, Emirates Development Bank, Khalifa Fund, among others
- Global and regional market access through Economic Partnership Agreements and GAFTA agreements, supported by Abu Dhabi's global logistics hub

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Abu Dhabi is uniquely positioned to ensure investor access to both local and regional markets, all with the full support of the Abu Dhabi Government ecosystem

Access to UAE Demand

+

Access to Government Procurement

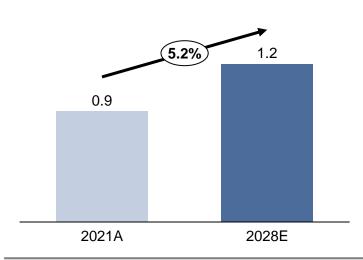


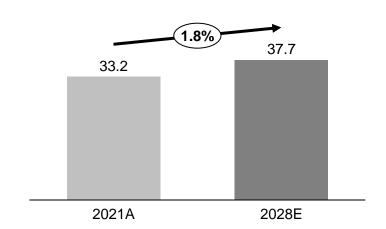
Access to Regional Markets

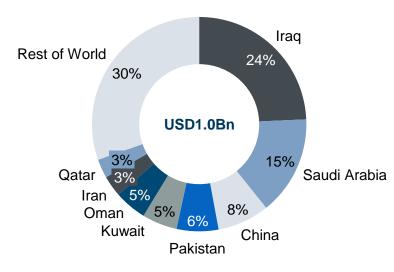
UAE HVAC Imports for Local Consumption, USD Bn

Abu Dhabi Government Indirect Procurement, USD Mn

UAE HVAC Exports and Re-Exports by Country, 2021, USD Bn







- Imports are estimated to account for ~85% of the local demand for HVAC systems in the UAE, leading to a significant import substitution opportunity
- The imports are roughly balanced between assembled units and parts
- Opportunity to establish JVs with local UAE players, such as SKM or Trosten

- USD33Mn in annual spend from Abu Dhabi Government Entities, such as ADHA¹ and DCT²
- In addition to the Abu Dhabi-specific opportunity above, investors could leverage MoIAT³ Product Offtake Initiative at federal level to tap into the USD80Mn in cumulative procurement over 5 years dedicated to HVAC products from key semigovernment buyers (e.g., Aldar, ADNOC)

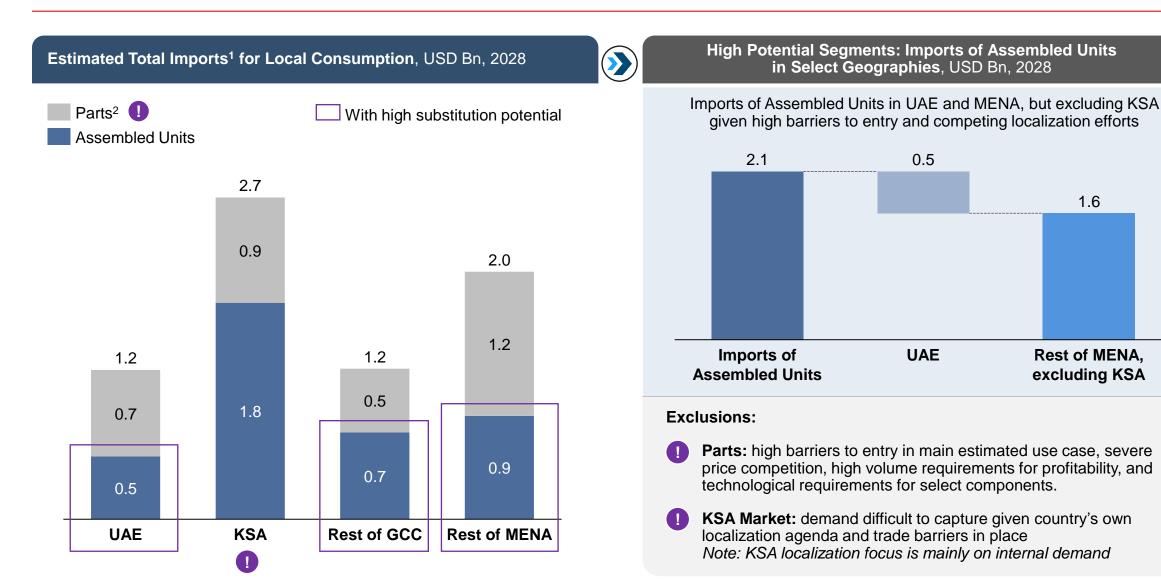
Opportunity to leverage UAE's and Abu Dhabi's regional status as a competitive advantage to substitute HVAC imports in MENA

- UAE and Abu Dhabi is a major logistics hub, with established supply chains into the GCC and MENA
- In addition, regional market access is supported by existing trade agreements (e.g., GAFTA)

Note: 1) ADHA: Abu Dhabi Housing Authority; 2) DCT: Department of Culture and Tourism; 3) MoIAT: Ministry of Industry and Advanced Technology Source: UN Comtrade, expert interviews, market reports, desktop research, PwC analysis



Local and regional segments with high substitution potential are expected to reach USD 2.1Bn by 2028



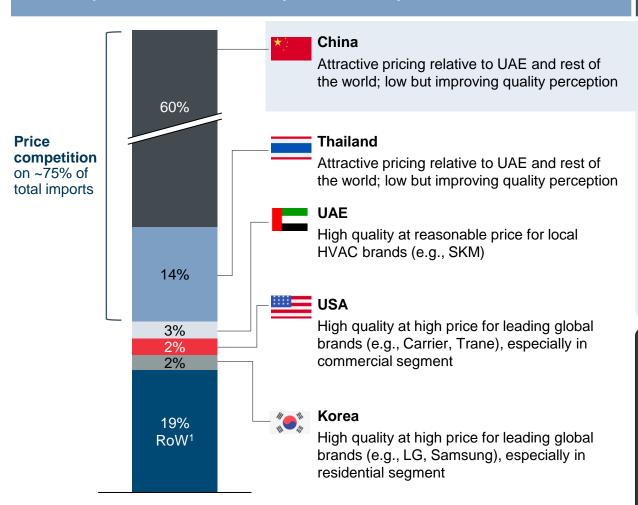
Note: 1) Trade balance data based on HS6 codes; forecasted demand growth rates based on market reports and expert input applied to imports to estimate 2028 values. 2) Imports estimated to reflect mainly the aftermarket (spare parts) use case Source: UN Comtrade, expert interviews, market reports, desktop research, PwC analysis

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Successful import substitution will require narrowing the price gap with lower cost suppliers, achievable through Abu Dhabi government support and economies of scale

MENA Imports of Assembled Units by Source Country, 2021, AED Bn



Example: Estimated Cost Comparison of HVAC Unit UAE production vs. Import from China

The cost of a shipped HVAC unit from China is ~15-20% lower than one currently assembled locally



Potential Cost Offsetting Levers

- Manufacturing overhead: Abu Dhabi government incentive schemes, such as (i) the Energy Tariff Incentive Program (energy and gas offsets of 30% and 35%), (ii) Land Rent Incentive Program (up to 80% offset of land rent costs) or (iii) Smart Manufacturing Program, among others
- Materials: levers such as (i) duty exemptions for raw materials, and (ii) economies of scale, made possible by local manufacturers' enhanced regional market access

Note: 1) RoW: Rest of World. 2) Includes labor, other operating expenses, equipment depreciation Source: UN Comtrade, expert interviews, desktop research, PwC analysis



The opportunity focuses on backward integration of HVAC systems: standalone assembly or combined with manufacturing of select components



Focus of this opportunity

R&D and Design

Manufacturing

Assembly

Services

Localization Opportunity



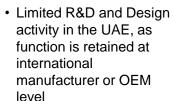
- · Research on new materials and technology to improve efficiency of **HVAC** systems
- Design of technical and aesthetic specifications
- Manufacture of HVAC components (e.g., compressor, heat exchanger, blower motor, electronic controls)
- · Assembly of subcomponents to produce a complete HVAC system
- Distribution
- · Installation, maintenance, repair, and support of HVAC systems post-sale

Backward integration:

- Assembly of indoor and outdoor systems
- Assembly of indoor and outdoor units and manufacturing of select value-added components









- · Heath exchangers and low value-added miscellaneous parts currently manufactured locally, mostly for aftermarket (spare parts)
- High value-added parts mostly imported (e.g., compressors, blower motors, or thermostats)
- A limited number of local assemblers focused mostly on lower complexity indoor units
- Reputed international players (e.g., Carrier) doing limited local assembly with parts sourced from own international factories
- · Distribution, installation and maintenance are largely localized by local players and international companies with offices in the UAE

Note: A backward integration approach is aimed at minimizing business risk through integration of low-capex value chain elements first, making the localization of assembly has an optimal expected

risk-return ratio







TROSTEN









NOTE: Limited assemblers (e.g.,









Key UAE Market **Players**

Carrier, Daikin) not included



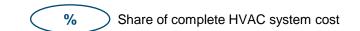
22 Source: Expert interviews, PwC analysis, desktop research ADIO Confidential

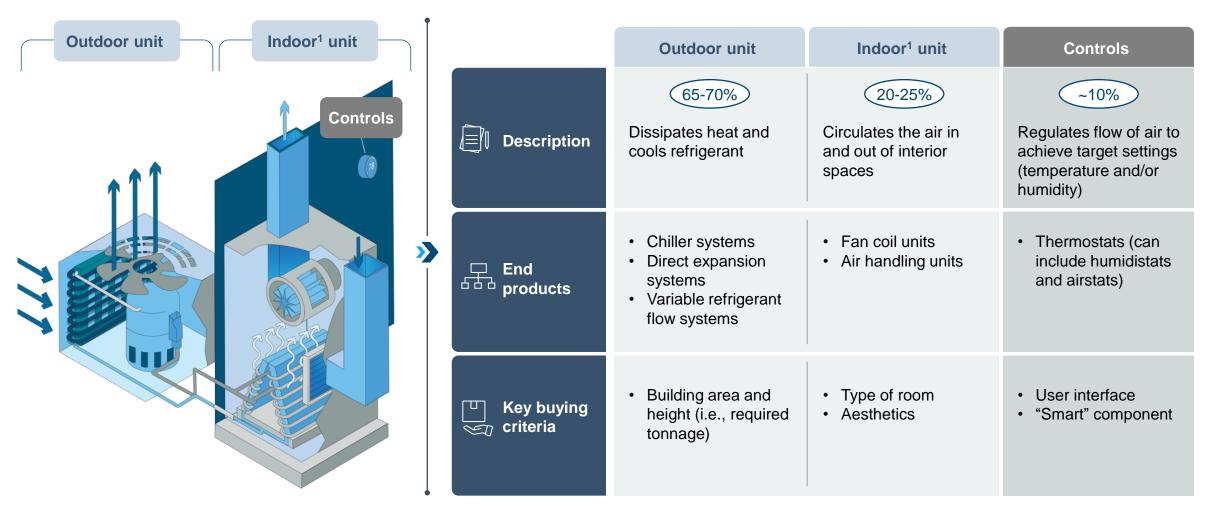


The localization opportunity spans outdoor and indoor systems, including controls

Key Elements

Representative scheme; may vary across HVAC system types





Note: 1) Combined with outdoor in some HVAC system types (e.g., Packaged HVAC) Source: Expert interviews, PwC analysis, desktop research



Assemblers can source locally up to 40% of a complete HVAC system, with further localization potential of blower motors

Value chain breakdown by key components

Potential for in-house production (detailed next)

Value chain breakdown by sourcing, %

Local

availability1

Overseas

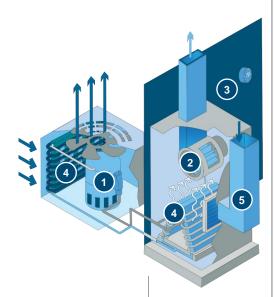
imports

30-40%

60-70%

Overview

Representative scheme; may vary across HVAC system types



- Chiller systems
- Direct expansion systems
- Variable refrigerant flow systems
- Fan coil units
- Air handling units

End Products

Components	Function	% Value of Assembled Unit	Potential Sourcing	
Compressors / Chillers	Compresses refrigerant / moves water to chill air	35-45%	Imported as a whole from countries with established foundries, given it requires iron casting	Overseas Imports
Blower Motor	Disperses air	15-20%	 Imported mainly from specialized motor manufacturers Low production complexity, but high volume requirement to operate profitably 	Overseas Imports
Controls (Thermostats)	Controls temperature and air flow intensity	<10%	 Imported from specialized controls manufacturers Not produced by traditional HVAC manufacturers 	Overseas Imports
Heat exchanger (condenser, evaporator)	Transfers heat between cooling liquid and air	15-20%	 Established HVAC systems players typically manufacture this component in-house Produced locally in the UAE by coil manufacturers, mainly for aftermarket spare parts 	Local availability
Ducts / Terminal	Distributes heated or cooled air	<10%	Produced locally in the UAE by general engineering companies or pipe manufacturers; readily available for assembly	Local availability
Other (e.g., tubing, casing, wires)		<10%	Produced locally in the UAE by general engineering companies; readily available for assembly	Local availability

Notes: 1) Primarily for aftermarket spare parts Source: Expert interviews, PwC analysis, desktop research



In addition to assembly, in-house manufacturing of blower motors and heat exchangers should be considered

Ease-of-Localization: High Available in the UAE Low **Global Manufacturers** Component **Production Complexity Supply Chain Complexity Main Raw Materials** and OEMs Copper wires **GREE** Steel/ Aluminium Silicon Steel Low production complexity · Low supply chain complexity Midea · Raw materials available locally (can be **Plastics** · Uses automated assembly lines and provided by EGA and Emirates Steel). simple machining processes · Plastics and Silicon Steel can be **Blower** easily imported from China motors **Aluminium** Stainless steel · Low complexity in production and · Low supply chain complexity **Copper** Typically localized production assembly · Raw materials supplied locally (e.g., given coil fragility at Emirates Global Aluminium; Emirates Heat Uses automated or semi-automated Fiberglass (For transportation Float Glass) processes in both manufacturing and insulation) exchanger assembly (condenser, evaporator) **INCLUDED IN BASE SCENARIO** Established HVAC players are expected to manufacture heat exchangers in-house to support the required scale for this opportunity and meeting buyer expectations



Business Case

Sample Case: Greenfield Project for Medium-Sized HVAC Assembly and Manufacturing Plant

Overview

- Establish a medium-sized facility with parallel assembly and production lines for a comprehensive HVAC product portfolio
 - Covers all key types of indoor and outdoor units
 - Serves all customer segments (commercial/industrial and residential)
- · Opportunity to serve the local UAE market, as well as to export to the broader GCC and **MENA regions**, with the exception of Saudi Arabia

Business Case Triangulation

- Market capture potential
- CAPEX requirements for (i) manufacturing line
- · Margins and IRR sanity checking

Public comparables

- · Companies: Carrier, Trane, Midea. Daikin
- Benchmarks: EBITDA margin. EBIT margin, FCF conversion, Asset Turnover assumptions

Business Cases High Potential Segments: Assembled Units Market Capture Imports for Local Consumption, USD Bn Expected Revenues, USD Mn **Share Capture Ramp-up**, % 2.1 156 Ramp-up curve is a key 7% IRR detractor for 1.7 0.5 UAE greenfield projects; can 50% Local 0.4 be mitigated through JVs 15% Rest of MENA, 1.6 1.3 ex. KSA 50% **Exports** 50% Year 51 Year 1 Year 1 Year 51 Year 1 Year 51 **Base Scenario: Limited Manufacturing Alternative Scenario: Comprehensive Manufacturing Operations** Assembly and quality control lines

Expert input

- property, (ii) assembly line, (iii)

Considerations

Production

Overview

CAPEX Requirement

Expected IRR

Payback Period

Lower upfront costs (and

- business risk)
- More price-efficient

value chain)

Higher supply chain risk

Worse commercial positioning for large buyers

- Assembly and quality control lines
- In-house manufacturing of heat exchangers (~20% of the value chain)
- Manufacturing of blower motors (~15% of value chain
- Better control of supply chain
- Better commercial positioning with large buyers

\$105-110Mn

~11%

~9 years

- Higher upfront risk
- More expensive to produce high-value add parts inhouse

Key Assumptions Investment Case

\$75-80Mn

~15%

~7 years

- Facility size of ~40,000 m² (~\$30Mn)
- Assembly and manufacturing (~\$50Mn)
- 60% financing of required CAPEX (can go up to 80% with government support)
- EBITDA: ~15%

• In-house manufacturing of heat exchangers (~20% of the

- Free-Cash-Flow conversion: ~50%
- Assumes FCF ramp-up to stabilization in year
- Assumes equipment cost of replacement as TV

Key Assumptions

- Facility size of ~50,000 m² (~\$35Mn)
- Assembly and manufacturing (~\$75Mn)
- 60% financing of required CAPEX (can go up to 80% with government support)
- EBITDA: ~14% (in-house production of blower motors more expensive than imports)
- Free-Cash-Flow conversion: ~50%
- Assumes FCF ramp-up to stabilization in year
- · Assumes equipment cost of replacement as TV

IRR Upside **Potential**

- Brownfield / synergistic project (e.g., JV with local supplier; capacity expansion)
- Increasing financing up to 80% (with government support)

- Faster market capture
- Additional revenue from services / aftersales

Note: 1) Year 5=2028

