



المجلس الأعلى للبيئة  
Supreme Council for Environment



**Bahrain- Kuwait- EPEE- UN Environment**



# Bahrain – Kuwait HFCs Outlook

*Visualizing Scenarios for Envisaging Actions*



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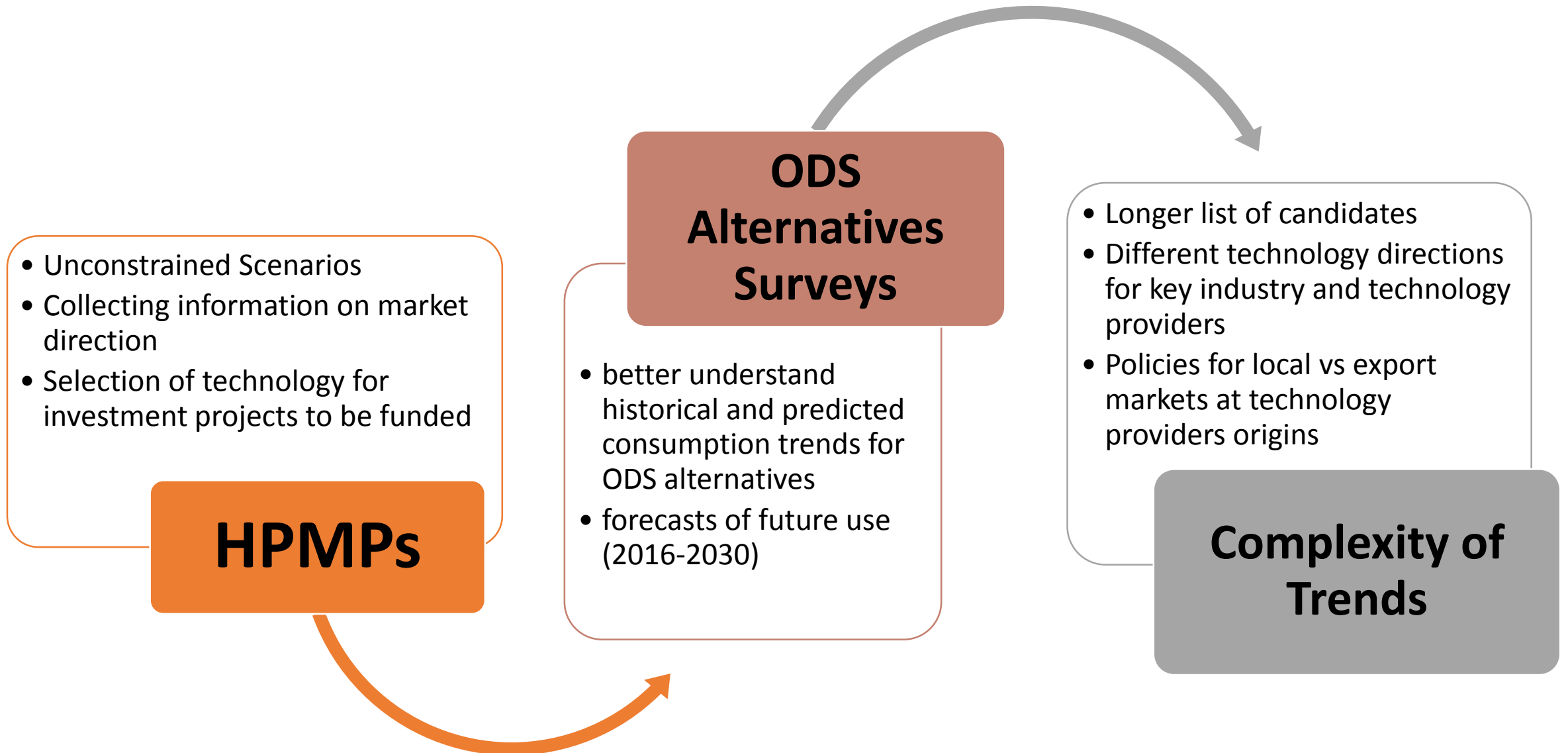


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# Introduction & Objectives

# From where we come...



# ODS Alternative's Surveys

## Data analysis and assessment

UNEP/OzL.Pro/ExCom/75/77/Rev.1 - FORMAT FOR PREPARATION OF THE SURVEYS OF ODS ALTERNATIVES AND PRESENTATION OF THE RESULTING DATA

16. Based on the data gathered through the questionnaires and field surveys, the following analysis will be undertaken:

(a) Growth patterns in consumption of ODS alternatives by substance:

(i) growth patterns of sector and subsector where ODS alternatives are used (up to 2030);

Develop a methodology for forecasting growth of ODS alternatives used in each sector/subsector;

(ii) Review the historical (from 2012) data for the use of each ODS alternatives and forecast their growth (up to 2030<sub>3</sub>);

(iii) Estimate

(b) Analysis of the data on the production of ODS alternatives to determine trends, where applicable;

(c) Describe opportunities and challenges for introducing low-GWP alternatives for the applications where these substances are used: review national regulations and standards related to the import and use of ODS alternatives and identify barriers that limit the introduction of low-GWP technologies and how these could be addressed, (e.g., safety concerns related to flammable alternatives, lack of domestic standards); and

(d) Describe linkages to the HCFC phase-out management plan (HPMP), giving due consideration to how the phase-out of HCFCs has influenced the introduction of ODS alternatives and the difficulties encountered.

# Lessons Learned

## Lessons learned from HPMPs and Surveys

1. Trend analysis and foreseeing technology penetration is not straight forward exercise, it needs to take into consideration
  - a) Each sector technology availability
  - b) Source of technology (local vs. imported), even source of import
  - c) Understanding economics of each subsector
2. Linking trend with Socioeconomics and local development plan and forecast for growth rates
  - a) Growth rate differ from one sector to another i.e. residential vs. commercial
  - b) Understand how mega projects may impact on some subsector
3. Impact of International policies on the projection of alternatives penetration to local market

# HFCs Outlook - How it started...

1. EPEE presentation at MOP-27 (Dubai) about the GAPOMETER project
2. Brainstorming between EPEE and OzonAction on how to transfer such experience to A5 parties
3. The opportunity offered through the ODS alternatives survey projects
4. The interest from Bahrain and Kuwait to build realistic scenarios, to be thoroughly consulted and validated by local stakeholders, for envisaging future policy actions

**Here we are today to share with you the first ever Scenario Model for A5 countries**