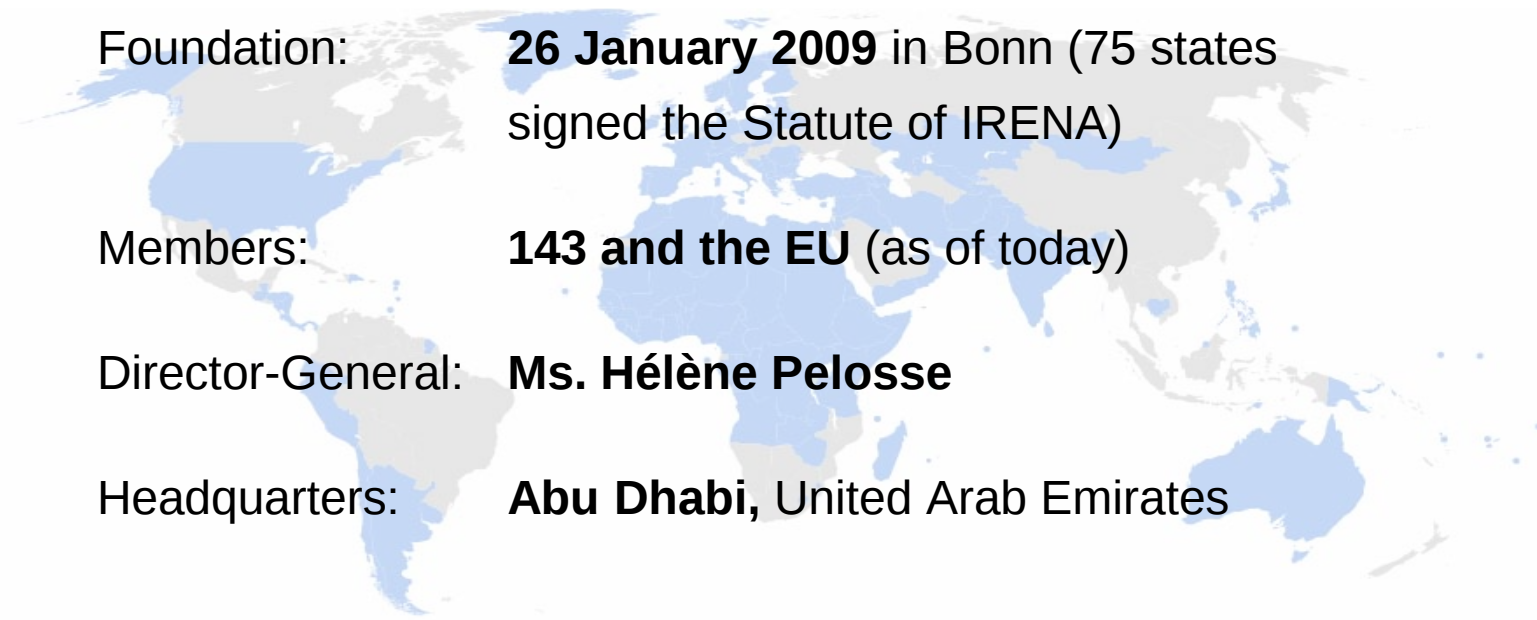


How can IRENA support the MSP ?

Hélène Pelosse
IRENA

1- What is IRENA ?



Foundation: **26 January 2009** in Bonn (75 states signed the Statute of IRENA)

Members: **143 and the EU** (as of today)

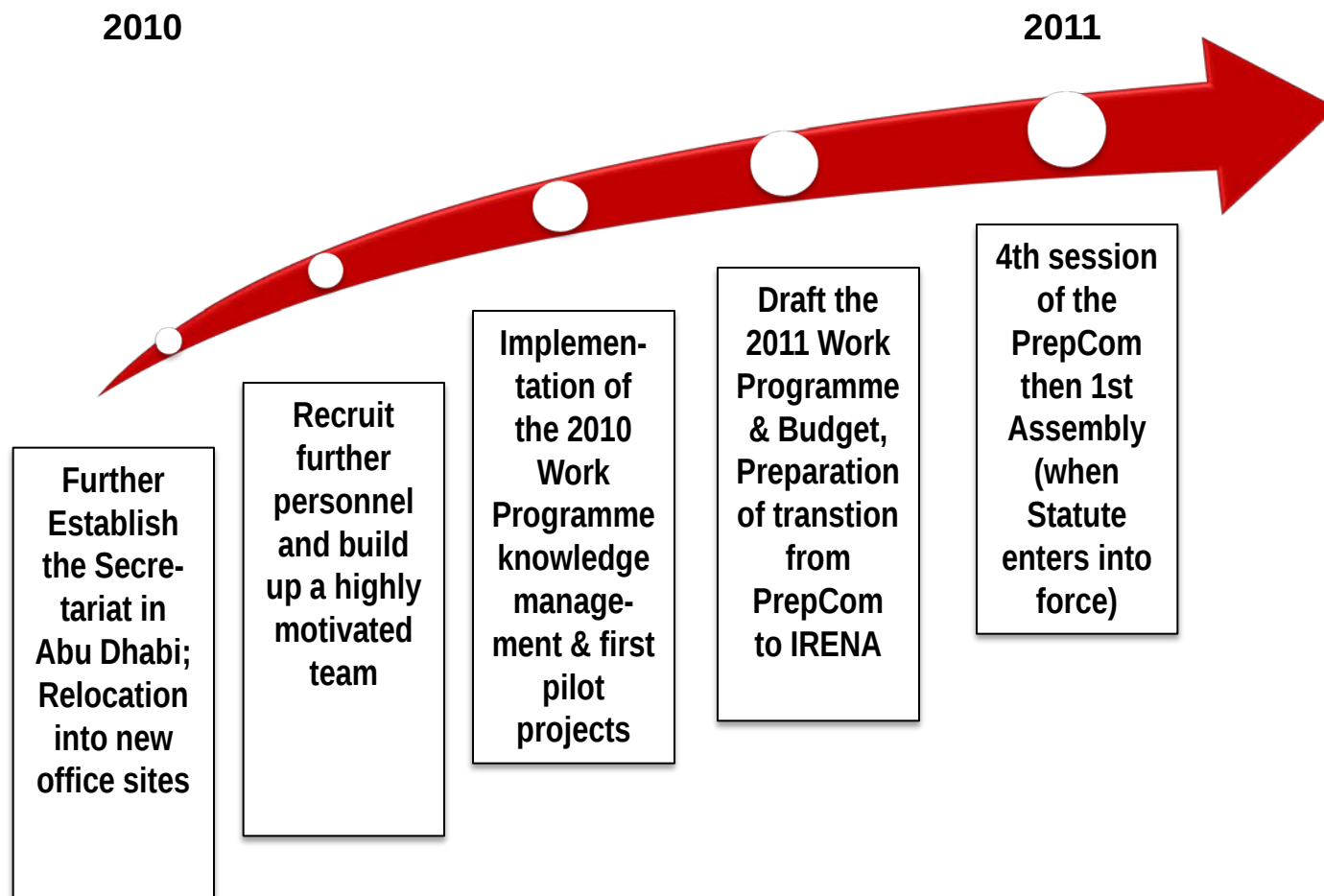
Director-General: **Ms. Hélène Pelosse**

Headquarters: **Abu Dhabi, United Arab Emirates**

1- What is IRENA ? – first year of operations

- January 2009: Foundation
- June 2009: Election of Interim Director-General and location of headquarters (Abu Dhabi)
- January 2010: First one-year work programme and budget of nearly 14 Mio USD approved
- 50 staff in 2010
- Mid-term: Up to 250 staff

1- What is IRENA ? Building up IRENA



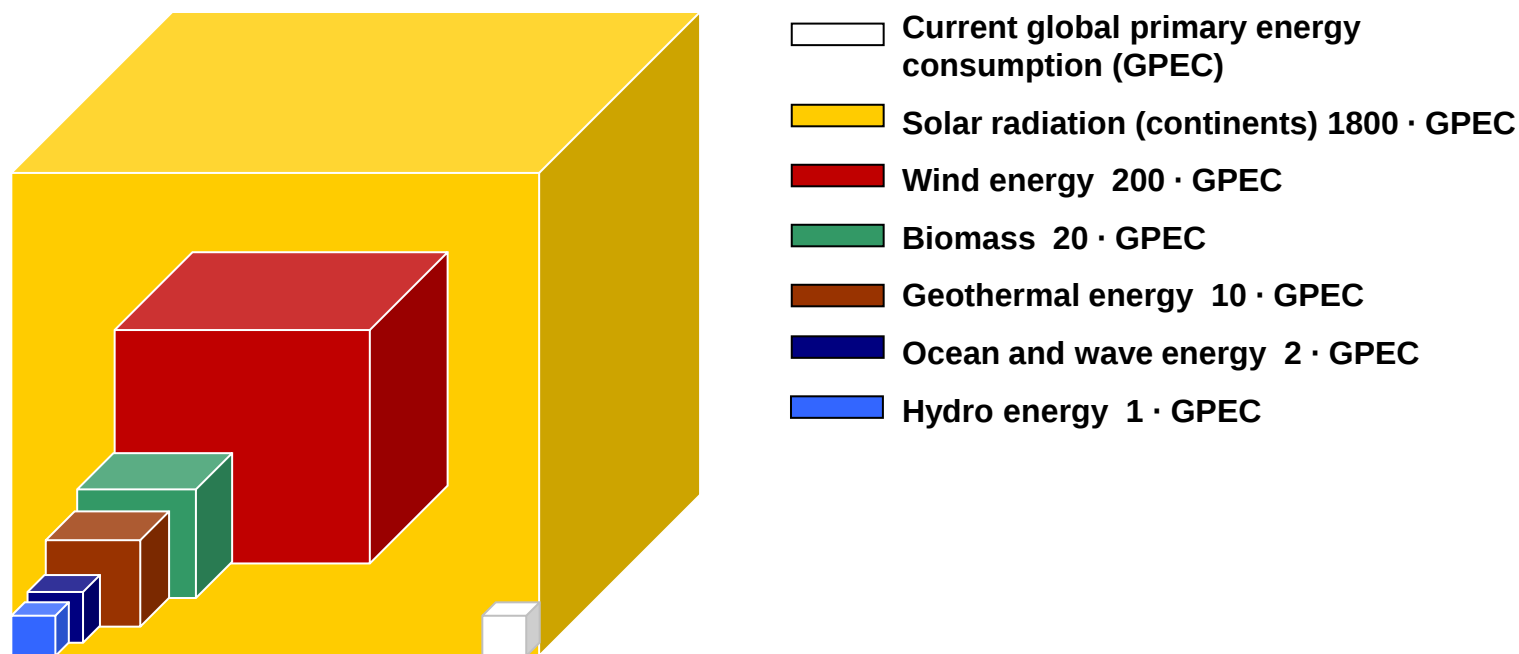
1- What is IRENA ?

1- Knowledge Center

- Mapping the RE potential worldwide (6 sources)
- Scenarii
 - Regional level
 - National level
 - Sub- National level
- First task: Tonga Energy Road map (off grid element) completed / To be expanded to AOSIS countries

1- What is IRENA ?

Mobilise the huge potential of renewable energy



Source: Nitsch, F.: Technologische und energiewirtschaftliche Perspektiven erneuerbarer Energien. German Aerospace Center. 2007.

1- What is IRENA ?

Middle East and North African Region

- Each square kilometre of land in the MENA region receives every year an amount of solar energy that is equivalent to 1.5 million barrels of crude oil
- The 6000 square kilometres of Lake Nasser in Egypt (Aswan) receive an amount of energy every year that is equivalent to the present Middle East oil production

1- What is IRENA ?

1- Knowledge

- R&D policy:
 - Filling the gaps
 - IPCC SRREN in 2011 in Abu Dhabi
 - Network of researchers
 - Dedicated budget in the Bid
- Technology for each need: “A Solar World for All” (make the SHS 50% cheaper) / prototype ready in Summer 2010
- Database on statistics and policies (jointly with IEA)

1- What is IRENA ?

1- Knowledge

- **Intelligent and flexible system requirements**
- **Energy storage and coupling sources**
- **Shift from base load to flexible energy production**
- **Smart grids**

1- What is IRENA ?



1- What is IRENA ?

2- Financing

- **Cooperation with Abu Dhabi Fund for Development**
- **Cooperation with Multilateral Donors**
- **Stocktaking of all financial instrument (KP/ post KP)**
- **Stocktaking of successful business models to scale up RE**
- **Financing advice for rural electrification**

1- What is IRENA ?

3- Capacity building

- **Capacity building needs analysis and strategy development**
- **Advise governments on national capacity building strategies**
- **Overview of existing virtual university and educational programmes for renewables: development of an e learning platform**

2- How can IRENA support the Mediterranean Solar Plan?

Success depends on four factors:

- Political willingness (awareness)
- Policy
- Finance
- Grid

2- How can IRENA support the Mediterranean Solar Plan?

Political awareness - willingness

- Actual energy system is unsustainable
- Mediterranean region with high solar and wind potential
- Space available (Desert areas)
- Technology is available

2- How can IRENA support the Mediterranean Solar Plan?

Policy

- Identification of institutional options and best practices
- Design of support mechanisms
- Assessment of policies in all application field (RE in electricity, transport, heating & cooling)
 - RE and Water (security issue for the whole region)
 - Solar Cooling

2- How can IRENA support the Mediterranean Solar Plan?

Finance

- Partnership: cf ADFD
- Dedicated resources in the bid
- Mobilize financial resources of International Organisations
- Gulf countries are aware of push for renewables and are consequently investing in this area: scale up
Saudi Arabia and Qatar joining (whole GCC)

2- How can IRENA support the Mediterranean Solar Plan?

Grid

- Integration of renewables in the grids: standards, operational procedures, etc. Cooperation :
 - CIGRE (International Council on Large Electric Systems)
 - Cooperation with MEDELEC (Euro-Mediterranean Electricity Cooperation)

Thank you for your attention !

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- target: 50% women**

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