



International
Energy Agency
1974•2014

Secure • Sustainable • Together

**5th International Forum for Sustainable
Development, Hammamet, Tunisia
4-7 November 2014**

**Promoting Renewable Energy, the
Example of Morocco**

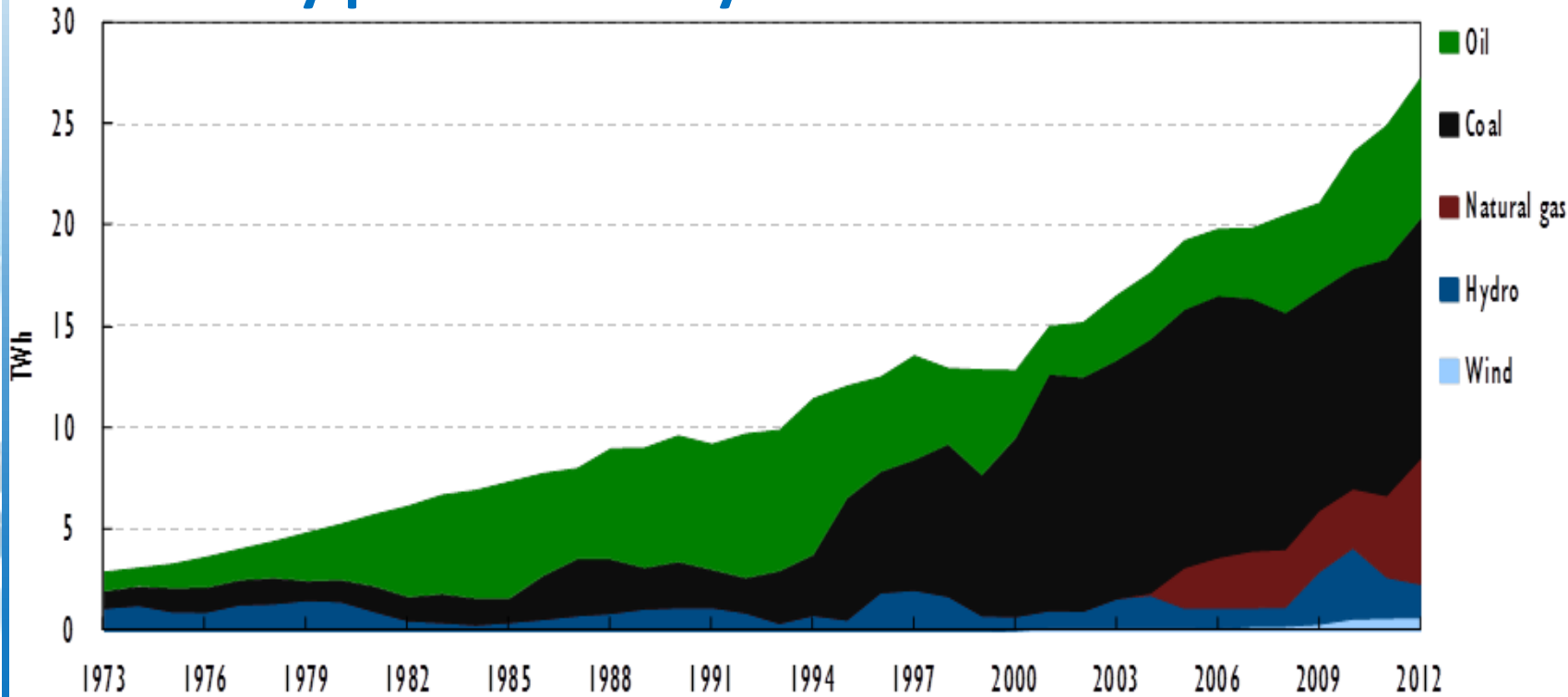
Christopher Segar IEA/GEP/EMA

Morocco: Total Primary Energy Supply Heavily skewed to hydrocarbons and imports



Electricity

Electricity production by source 1973-2012

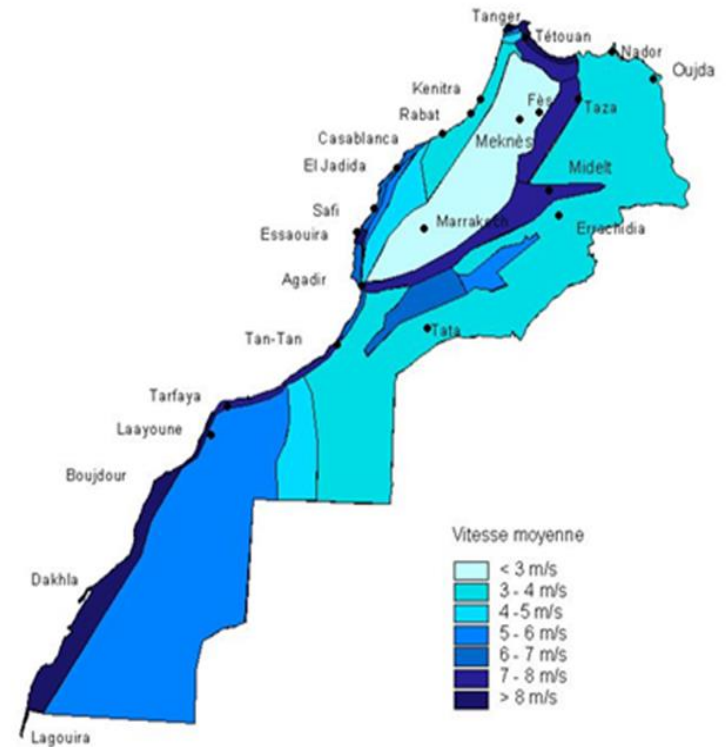
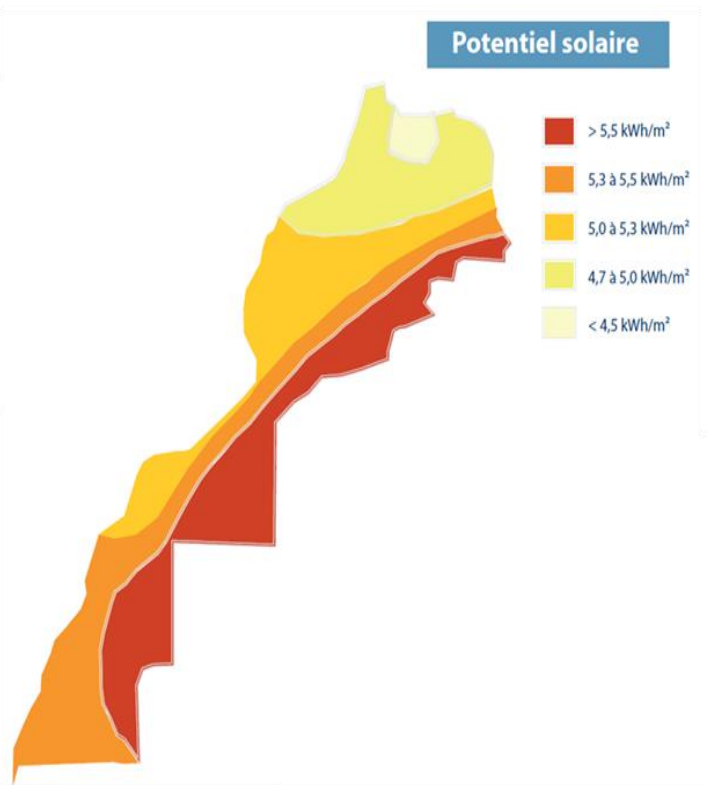


Morocco

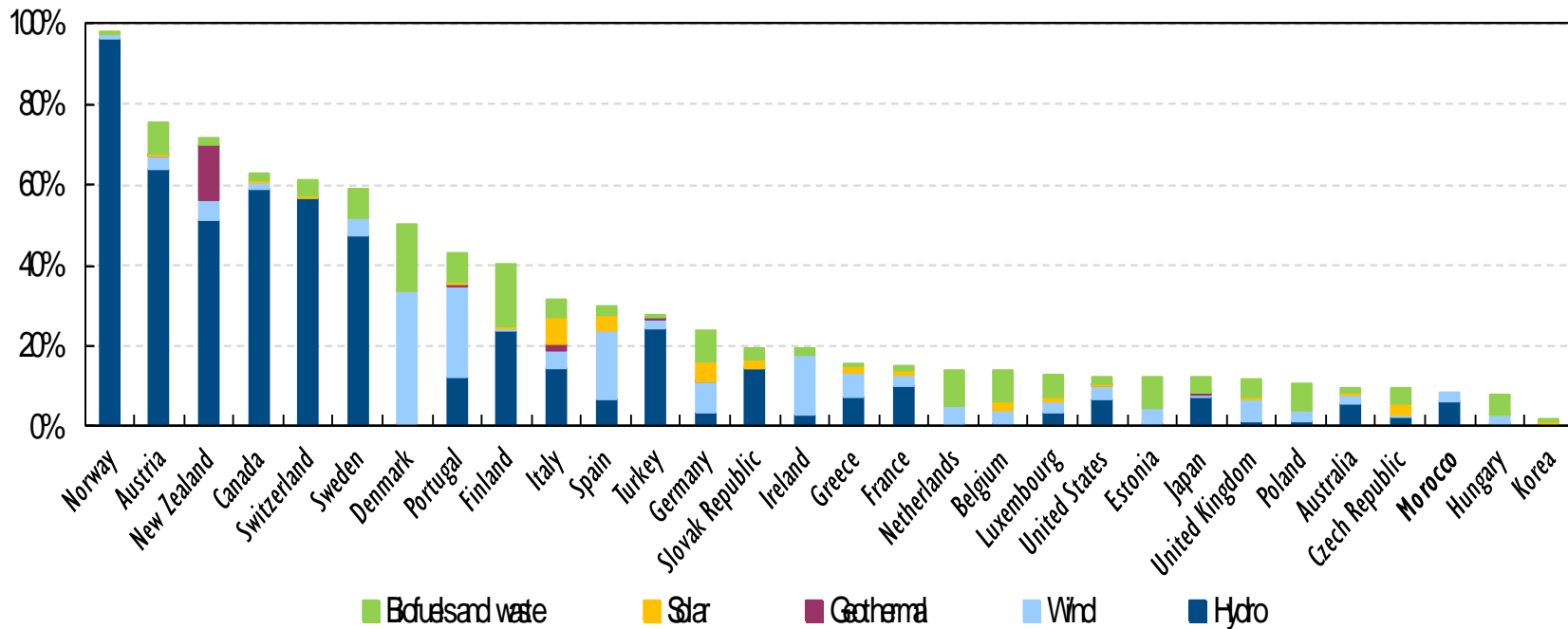
A strong institutional structure

- Ministry of Energy Mines Water and Environment (MEMEE)
- National Office of Electricity and Water (ONEE)
- Energy Investment Company (SIE)
- National Agency for Development of Renewable Energy and Energy Efficiency (ADEREE)
- Moroccan Agency for Solar Energy (MASEN)
- Institute for Research into Solar and Renewable Energies (IRESEN)

Solar and Wind Potential



Morocco has scope to increase its share of renewables in the electricity mix



A strategic approach

- **Legislation**
- **Strategic targets**
- **Institutions: ADEREE, MASEN, IRESEN**
- **Site selection**
- **Funding: SIE, EDF, Development agencies**
- **Project definition**
- **Investors: Nareva, GdF, Taqa, Acwa Power**

Next steps

- **Target expensive fuel use (peak demand)**
- **Open medium and low voltage to PV supply**
- **Disseminate PV options in industry and agriculture**
- **Use PV to displace LPG where possible**
- **Promote direct solar heating more aggressively**



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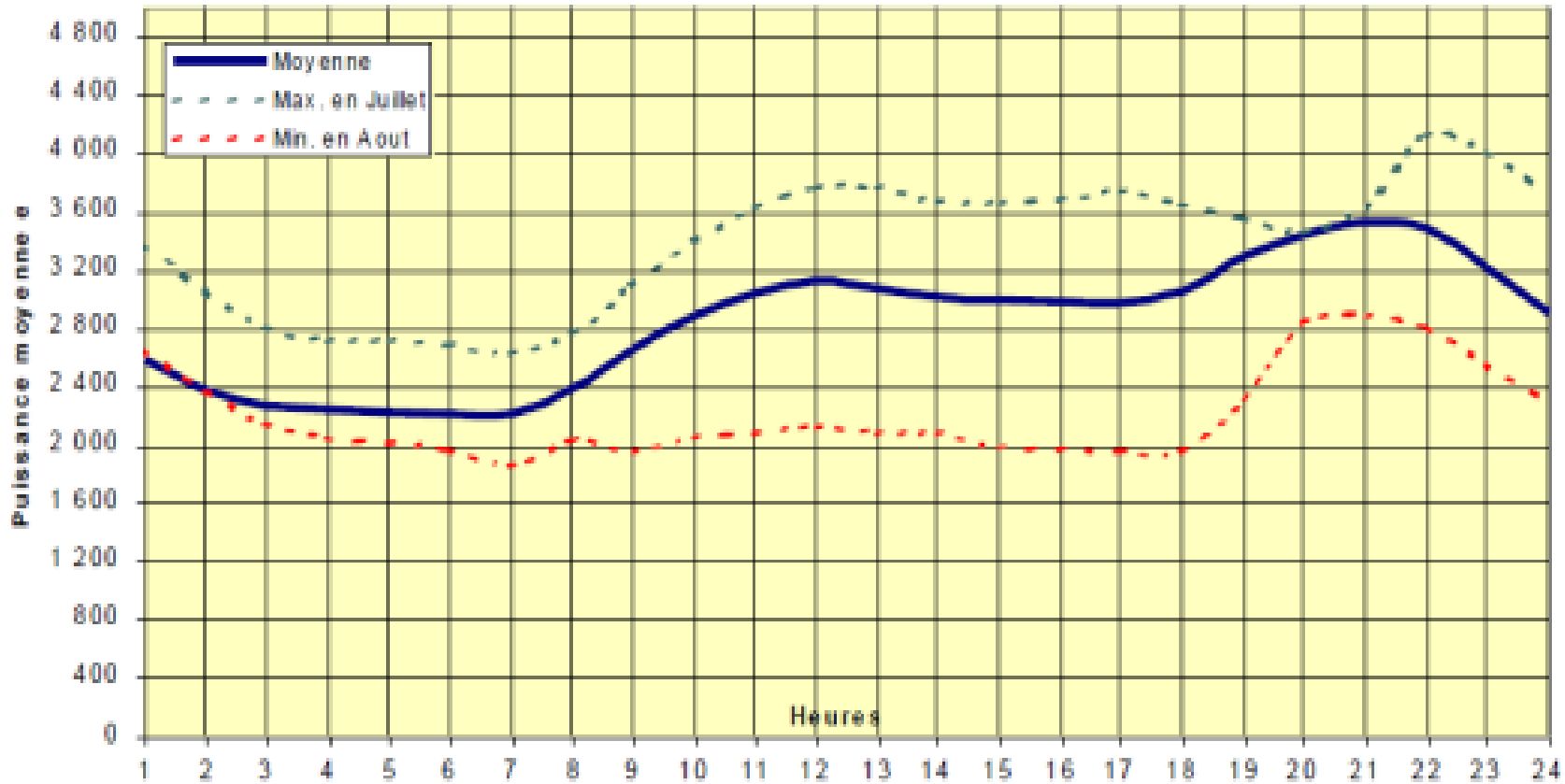
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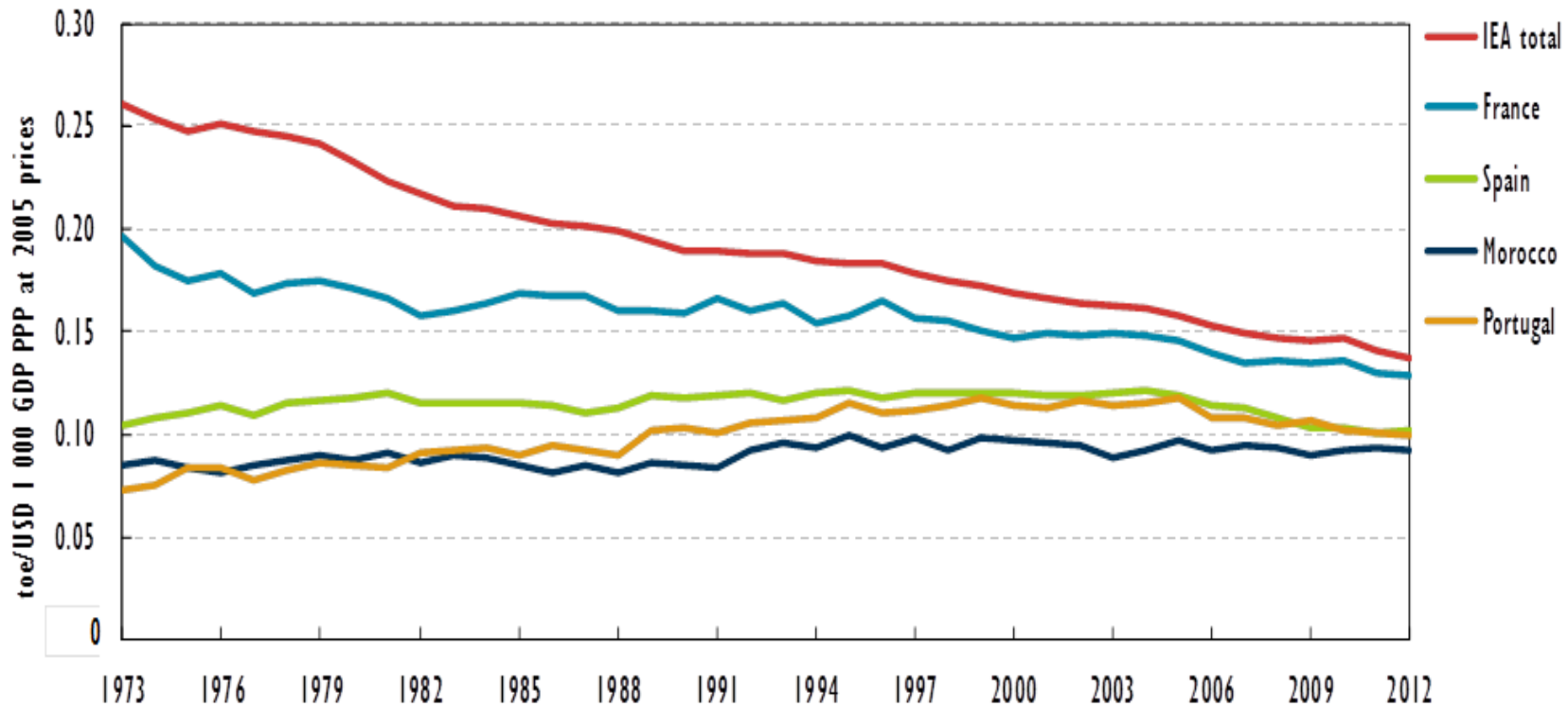
Average daily load curve 2010



Key issues

Energy Efficiency

Energy intensity in Morocco compared with selected IEA countries – 1973-2012



Climate Change: carbon intensity

