

Hiili globaalissa kontekstissa
16.3.2017



Sisältö

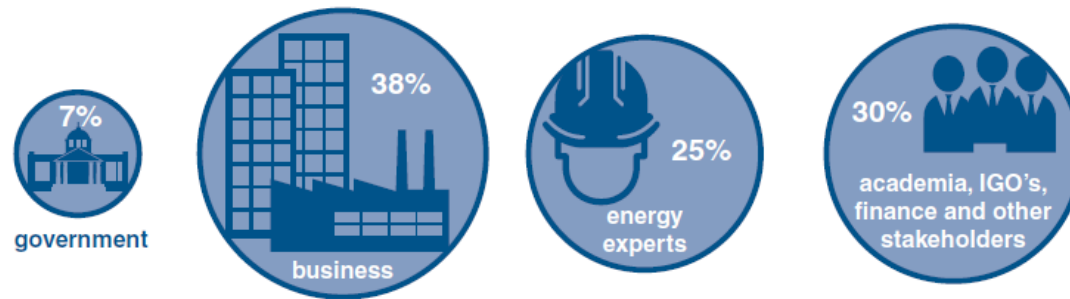
1. World Energy Council Finland?
2. “Globaali konteksti”
3. Kiina
4. USA
5. Muu maailma

World Energy Council

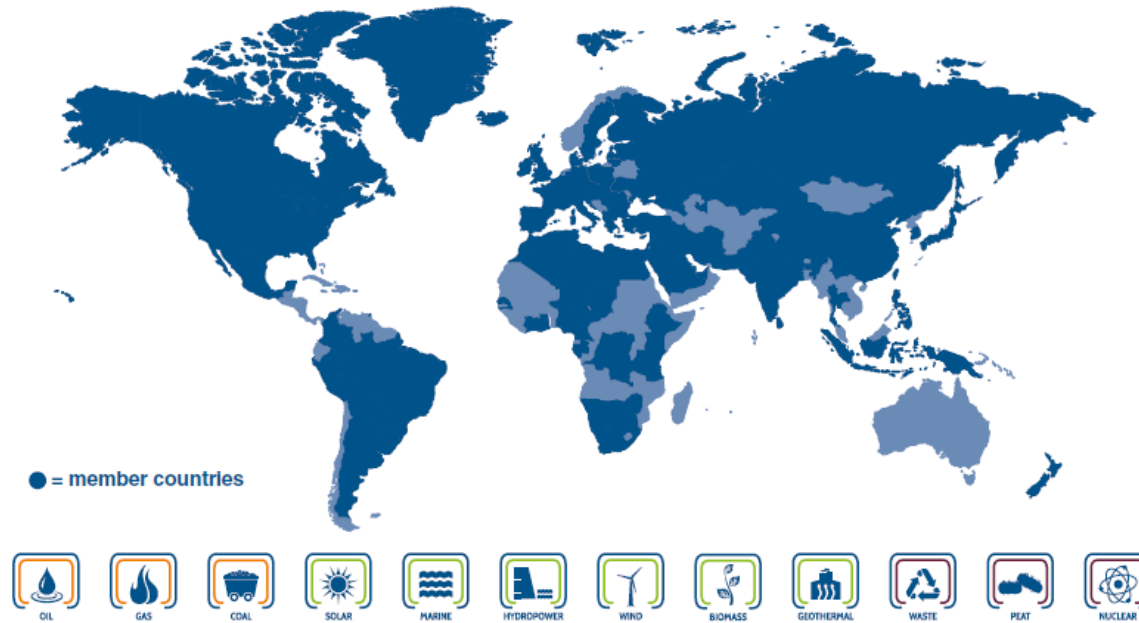
- Riippumaton kansainvälinen energia-alan asiantuntijaverkosto – “Teollisuuden IEA”
- Toiminut vuodesta 1923
- Verkostossa on mukana n. 100 jäsenmaata
- Tutkimuksia ja selvityksiä
- Järjestää lukuisia eri tilaisuuksia ympäri maailman
 - Istanbul 2016



Berliinin konferenssi vuonna 1930. Vieraina mm. Max Planck ja Albert Einstein



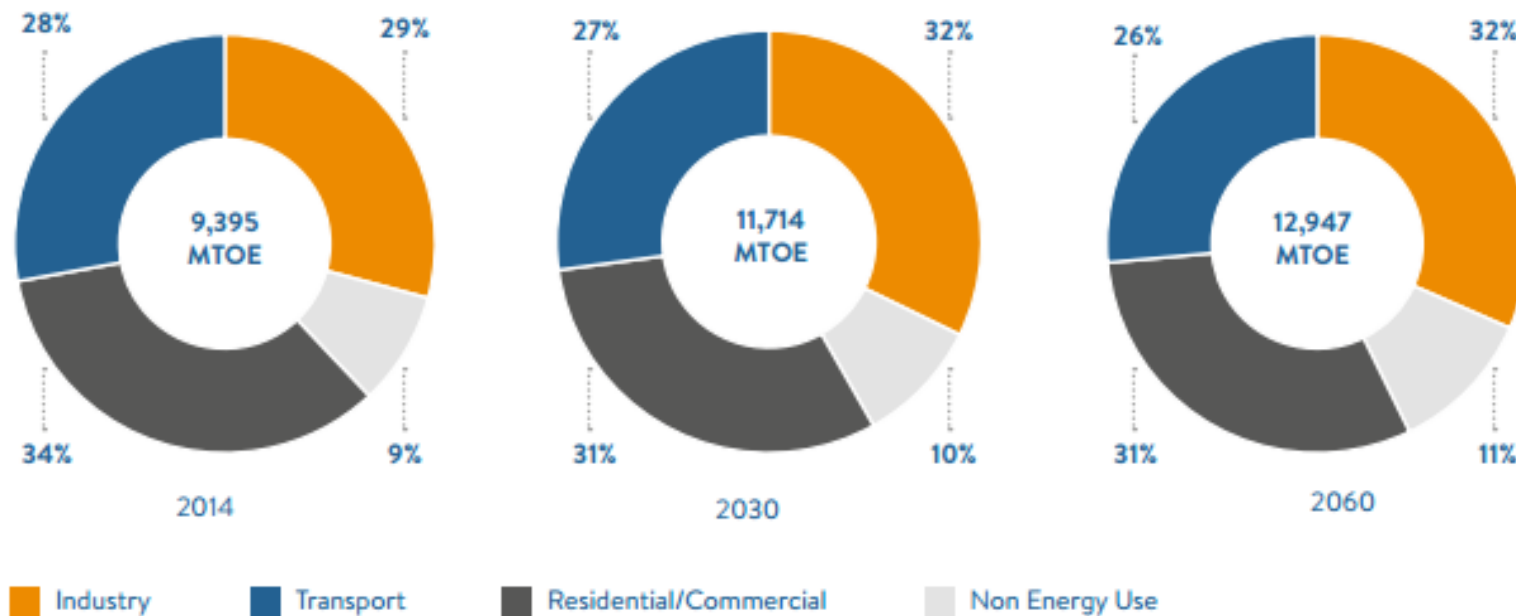
World Energy Council – a truly global network of member countries



World Energy Scenarios | 2016



Maailman energiankulutus sektoreittain 2014 - 2060



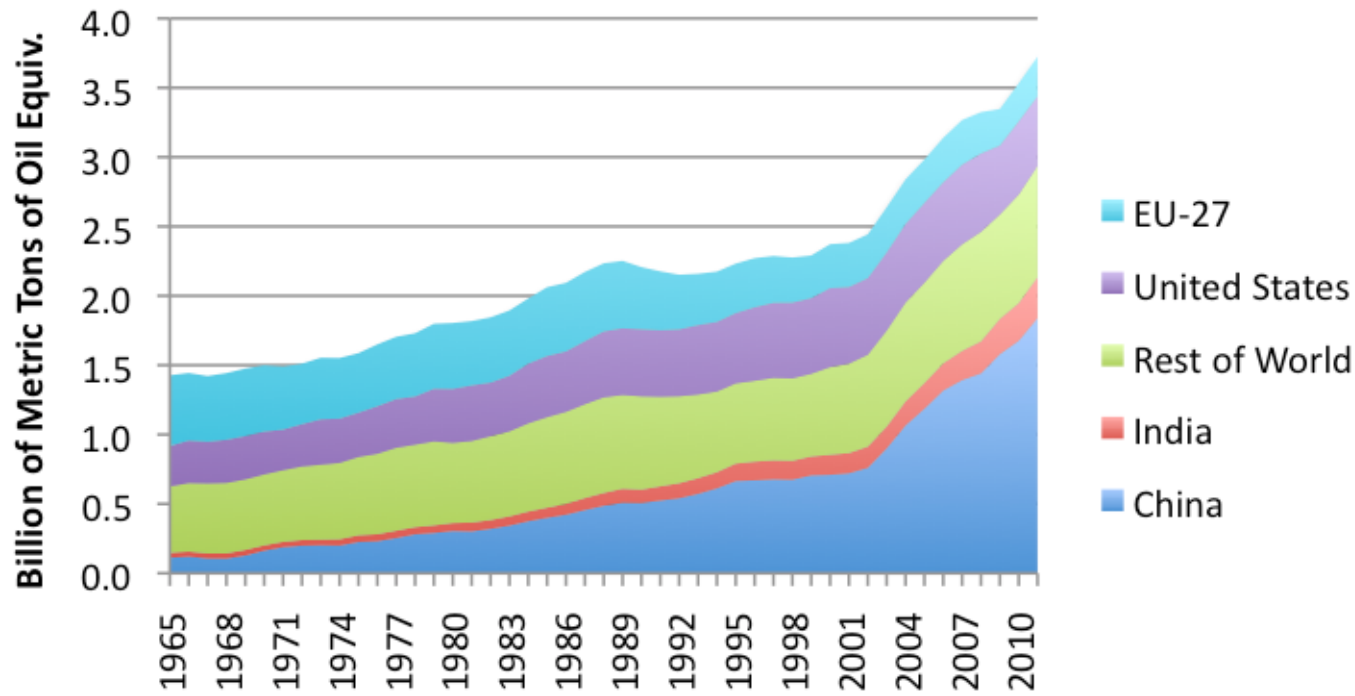
Source: The World Energy Council, Paul Scherrer Institute, Accenture Strategy

World Energy Council - Skenaariot

- **Per capita peak demand in energy?**
- **Population growth**
- **Modernisation**
 - **E.g. Steel**
 - **Cement**
 - **Other investment goods**
- **Fuel use down – electricity use is up**

Globaali hiilen kulutus

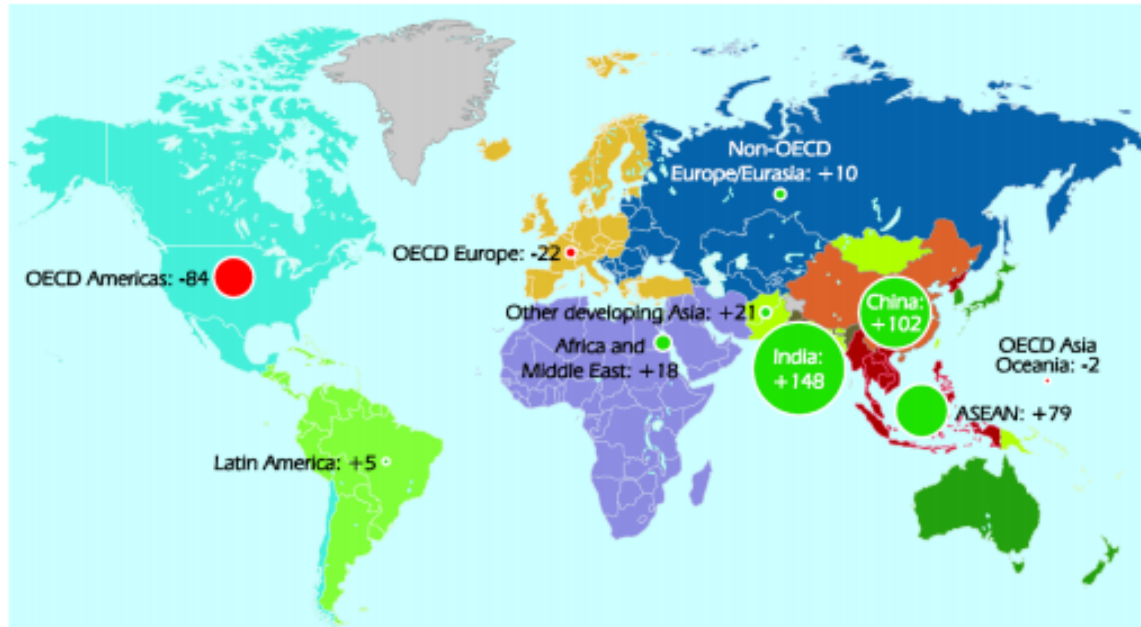
World Coal Consumption - BP



Suomen energiankulutus 2015:
0,0259 **BTOE**

IEA: Hiilen kulutus jatkaa kasvuaan lyhyellä aikavälillä?

FIGURE 1: FORECAST OF INCREMENTAL GLOBAL COAL DEMAND 2014 - 2020 (MTCE)

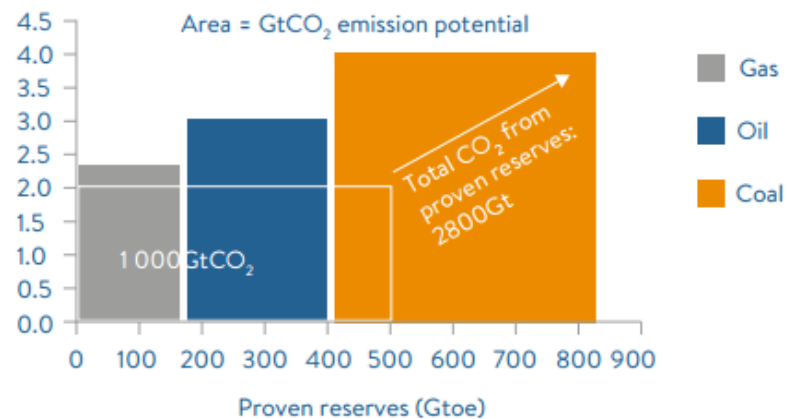


Source: IEA (2015)

Ilmastohaaste – Peak oil, gas and coal are dead

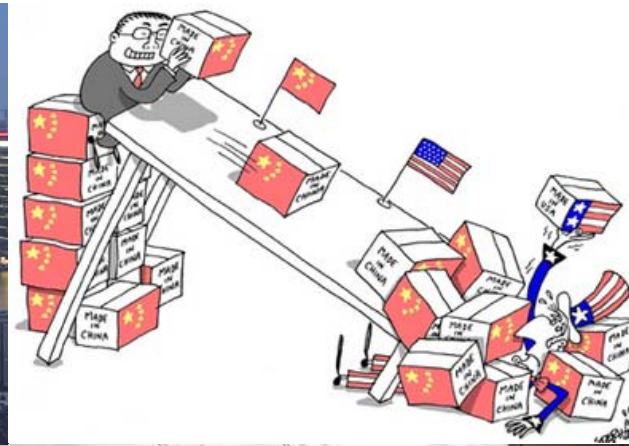
FIGURE 7: CLIMATE CHANGE CHALLENGE”

Fuel carbon intensity (tCO₂/toe)

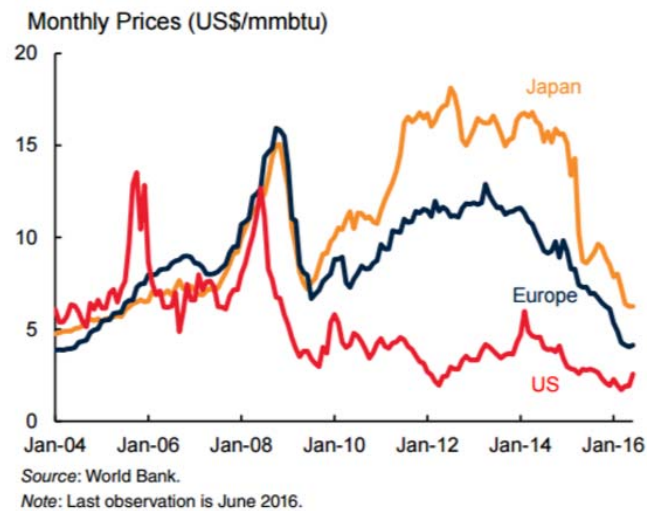


Source: Accenture Strategy Energy Institute - IPCC

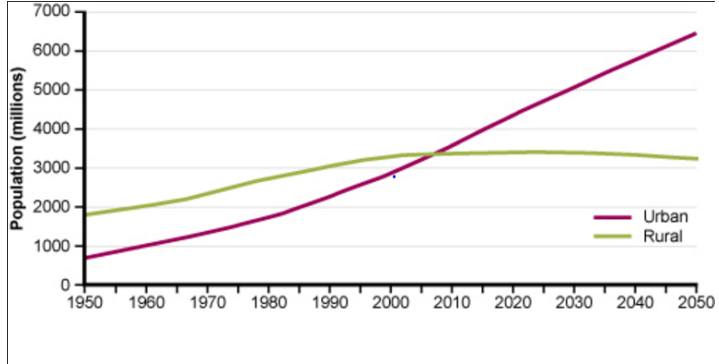
Kiina



Yhdysvallat. Miners – OK. What about the plants?



Muu maailma



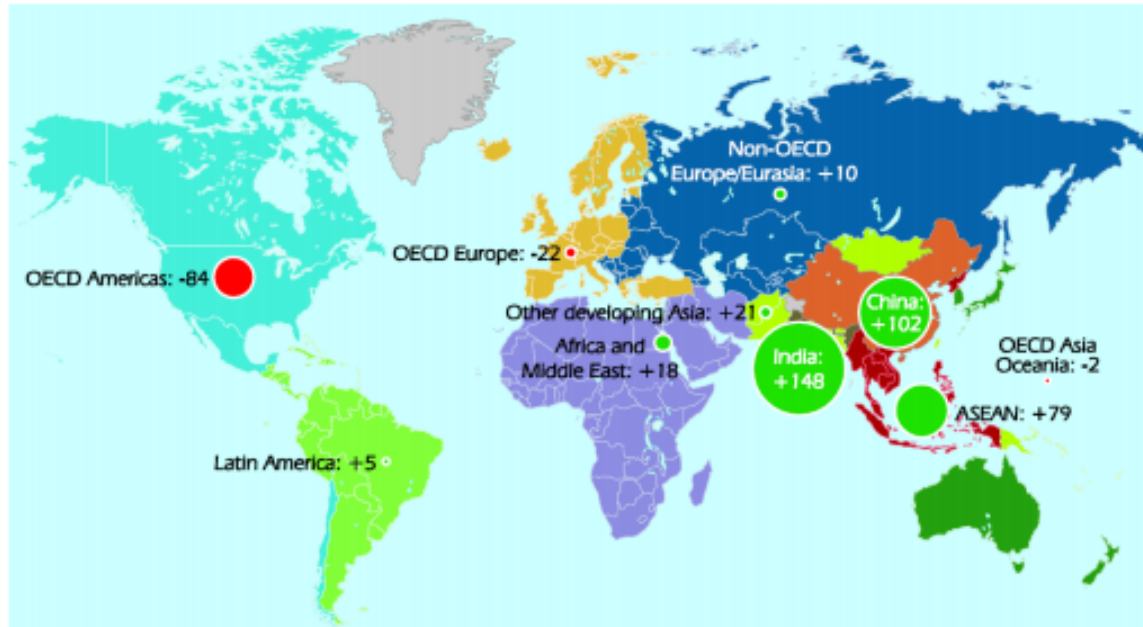
A Jaw-Dropping World Record Solar Price Was Just Bid in Abu Dhabi

It's for a planned sprawling solar farm for a utility in the Middle East.

FORTUNE.COM

”Ennustaminen on aina vaikeaa, varsinkin tulevaisuuden ennustaminen.”

FIGURE 1: FORECAST OF INCREMENTAL GLOBAL COAL DEMAND 2014 - 2020 (MTCE)



Source: IEA (2015)