

REPIC

Renewable Energy &
Energy Efficiency
Promotion in
International
Cooperation



Schweizerische Eidgenossenschaft
Confédération suisse
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Direction du développement et de la coopération DDC

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**Interdepartmental Platform for Renewable Energy
and Energy Efficiency Promotion in International
Cooperation**

Vernissage Tonga Soa
Club-44, La Chaux-de-Fonds, 3 avril 2014, Stefan Nowak



Source: Madeole, Madagascar

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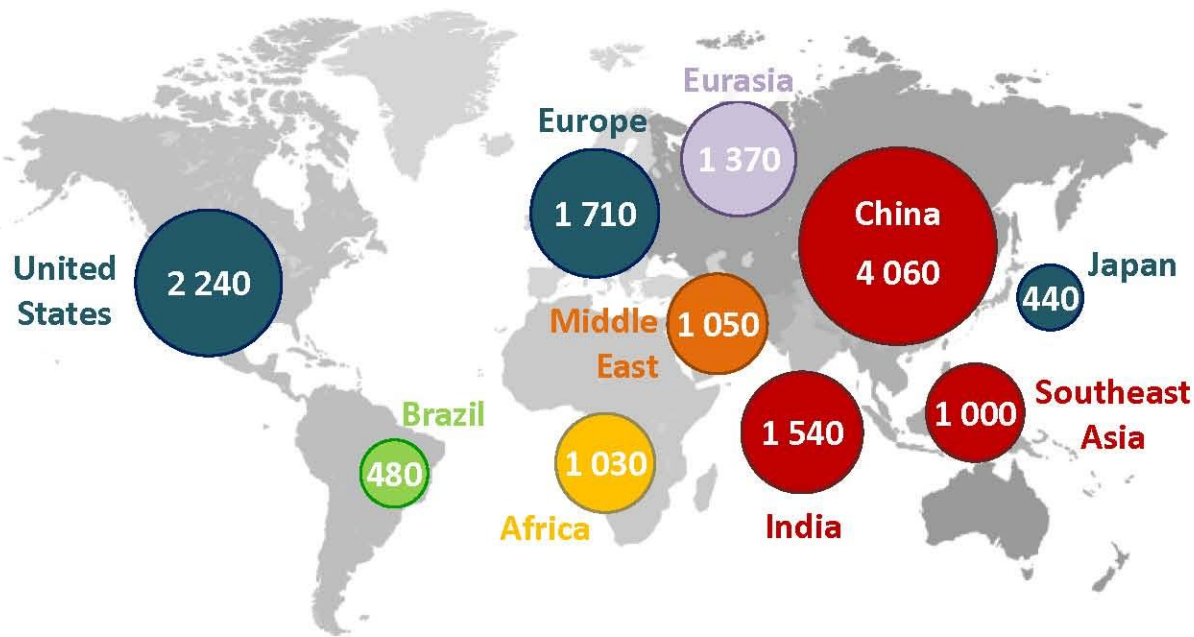
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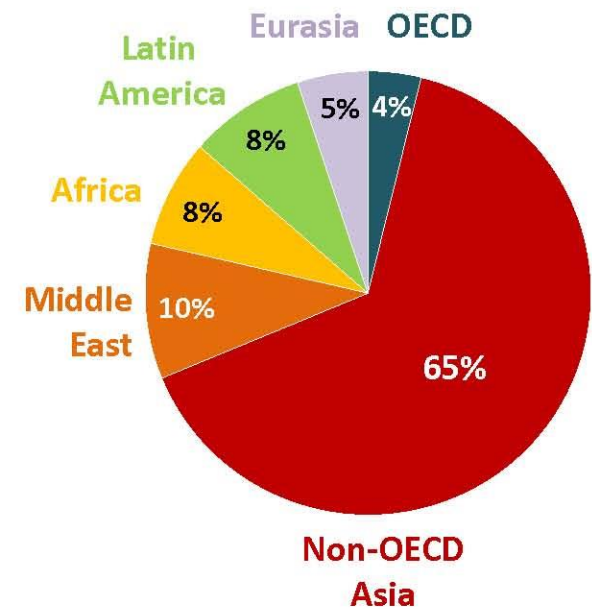
Le grand contexte

The engine of energy demand growth moves to South Asia

Primary energy demand, 2035 (Mtoe)



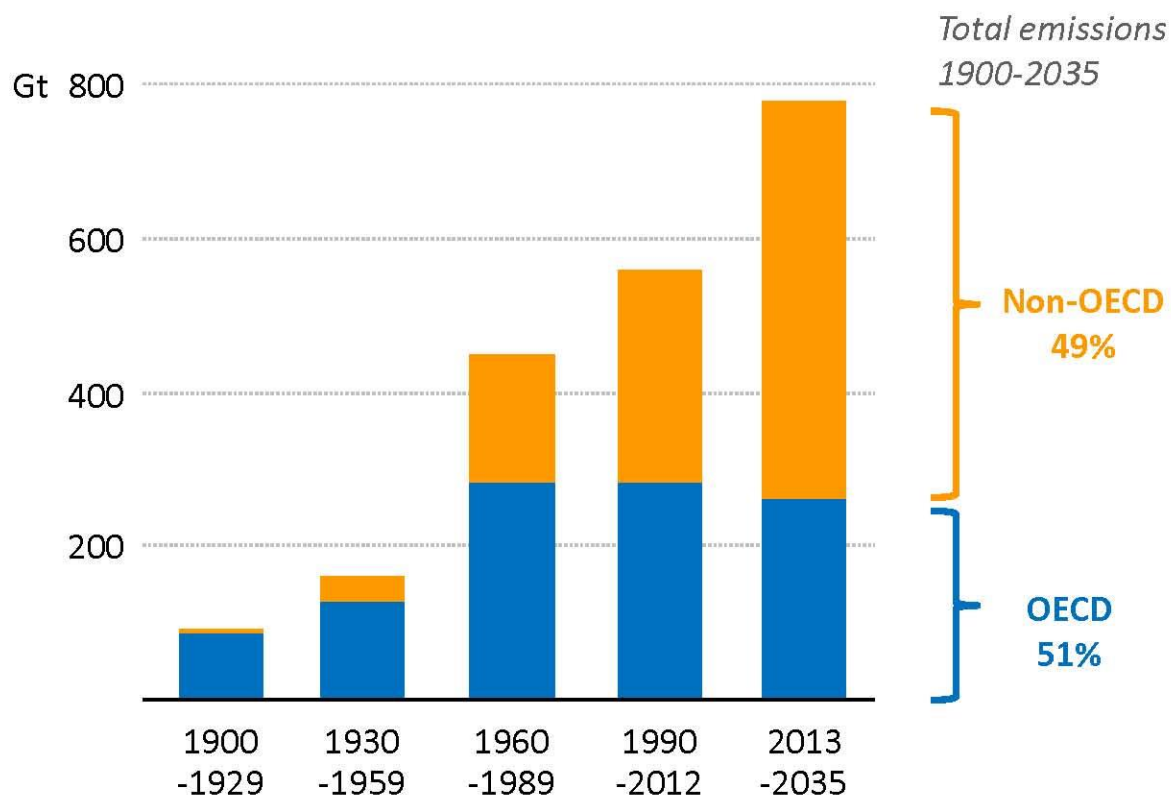
Share of global growth 2012-2035



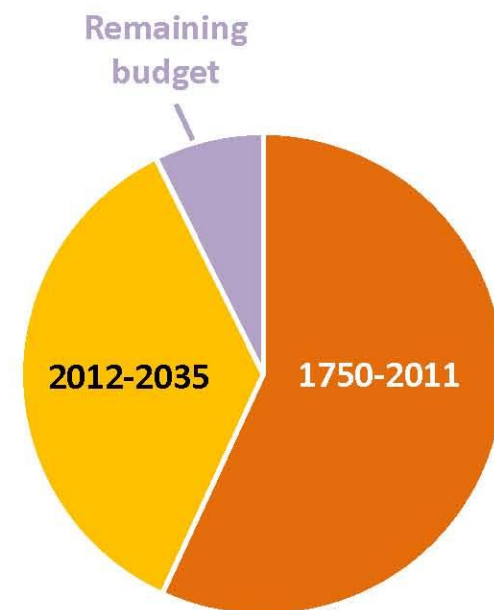
China is the main driver of increasing energy demand in the current decade, but India takes over in the 2020s as the principal source of growth

Emissions off track in the run-up to the 2015 climate summit in France

Cumulative energy-related CO₂ emissions



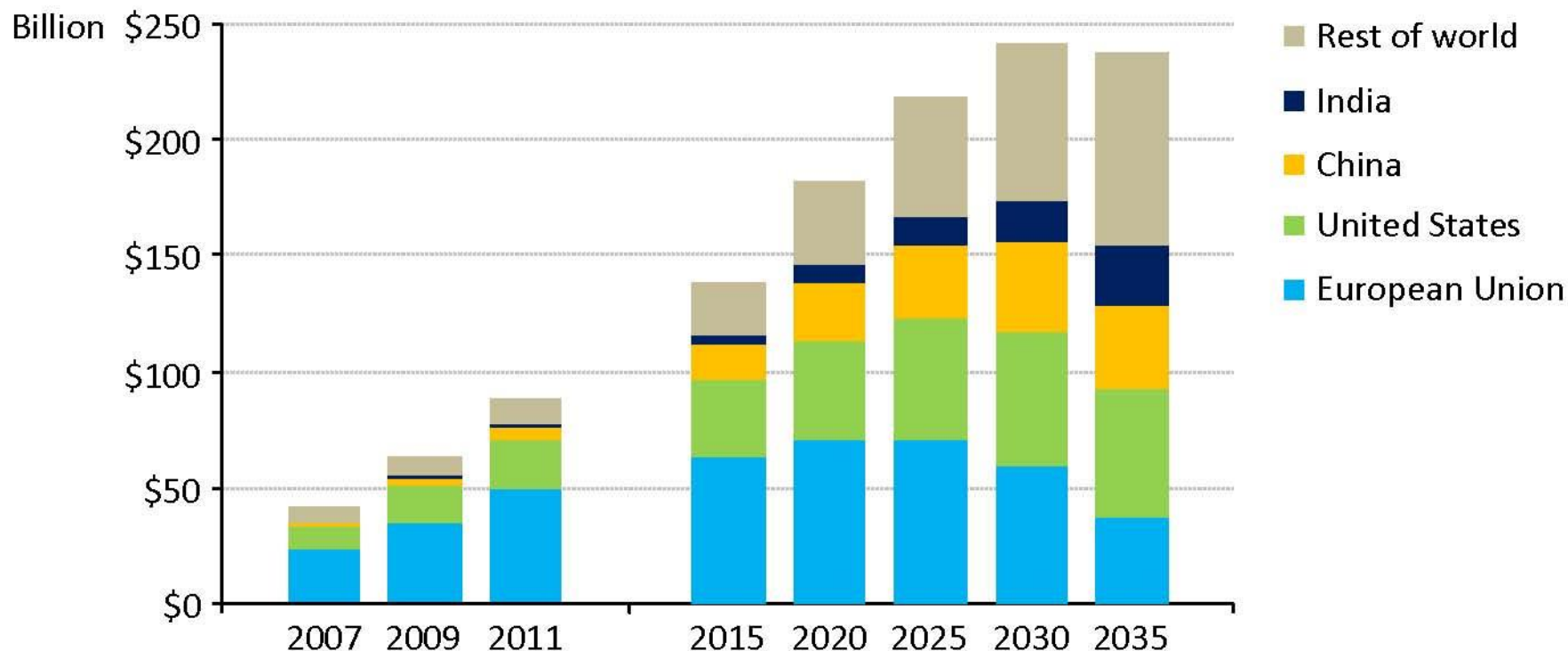
'Carbon budget' for 2 °C



Non-OECD countries account for a rising share of emissions, although 2035 per capita levels are only half of OECD; the 2 °C 'carbon budget' is being spent much too quickly

The multiple benefits of renewables come at a cost

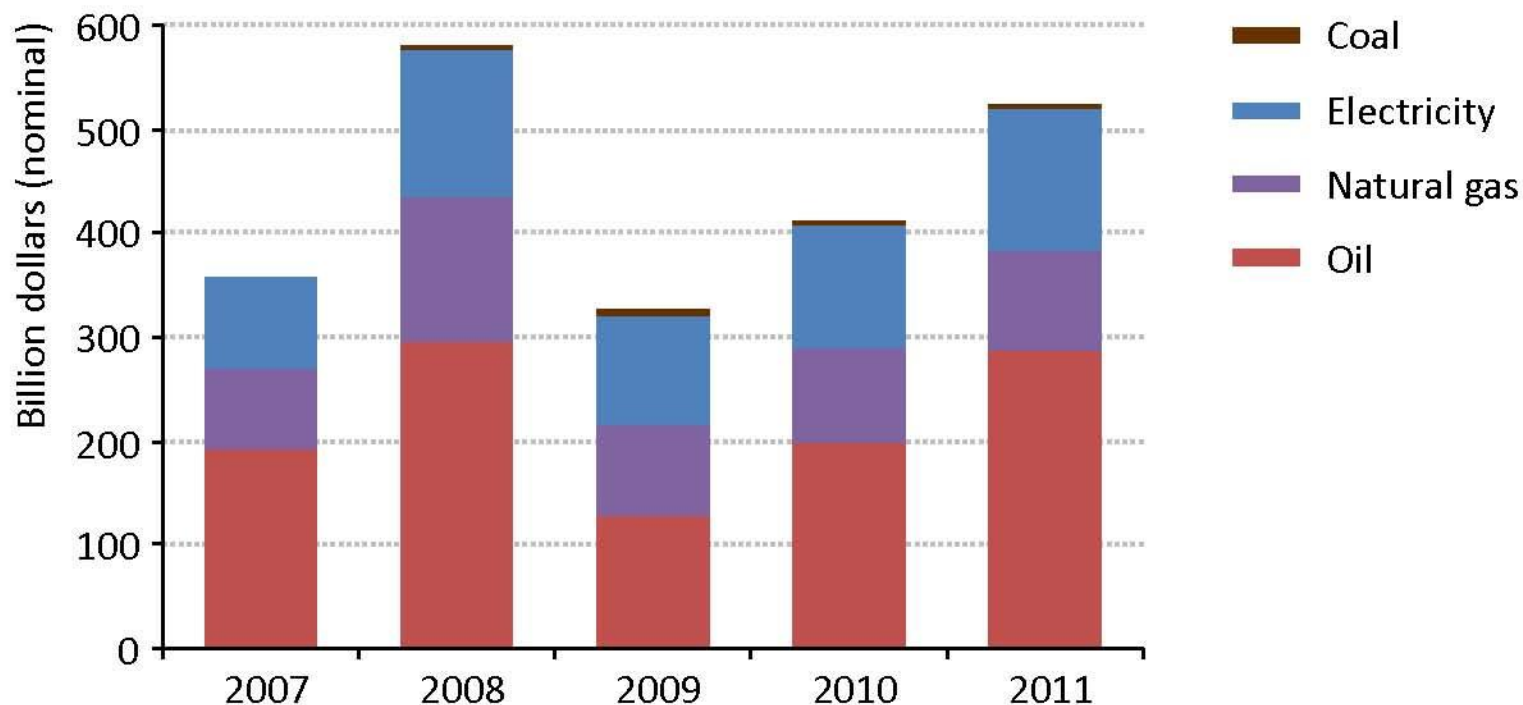
Global renewable subsidies by region



Renewable subsidies were \$88 billion in 2011; over half the subsidies required to 2035 has been committed to existing projects or is needed to meet 2020 targets

Getting rid of fossil-fuel subsidies is a triple-win solution

Global fossil-fuel subsidies



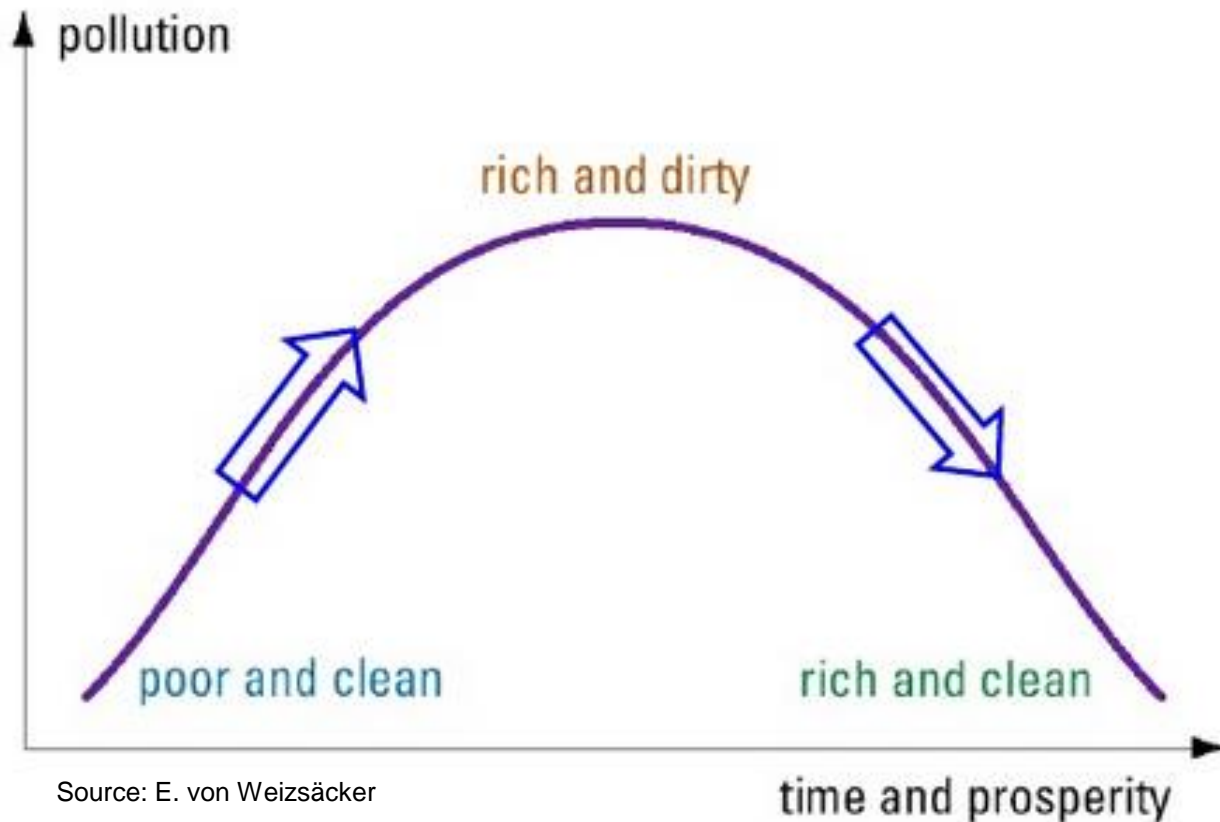
Global fossil-fuel subsidies, which jumped to \$523 billion in 2011, are providing an incentive to emit CO₂ that is equivalent to \$110 per ton

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Objectifs durables...

Dans des scenarios durables, l'humanité doit créer de bonnes conditions de vie et la production doit être propre (énergie, industrie etc.)

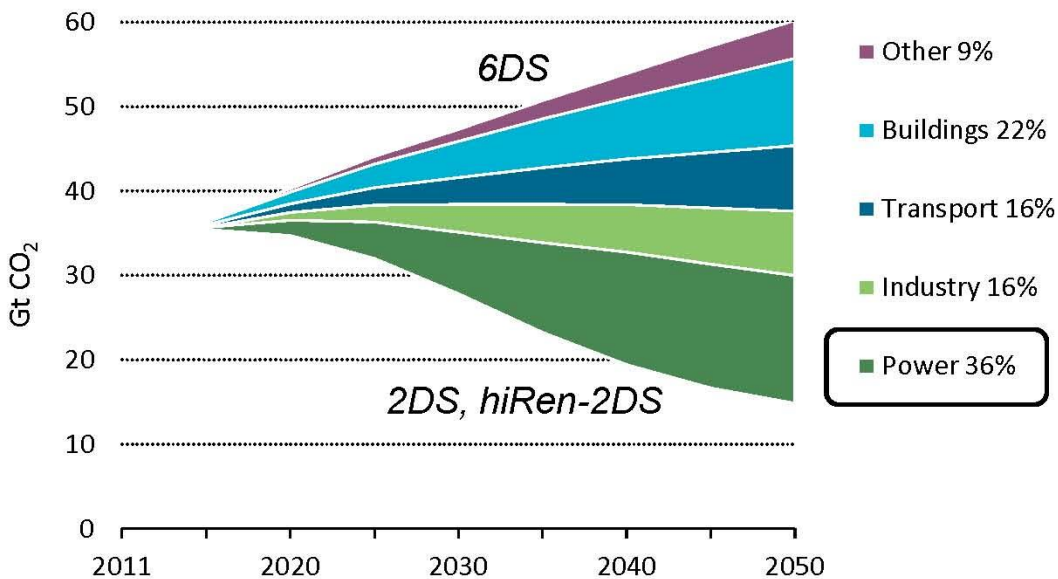


Source: E. von Weizsäcker

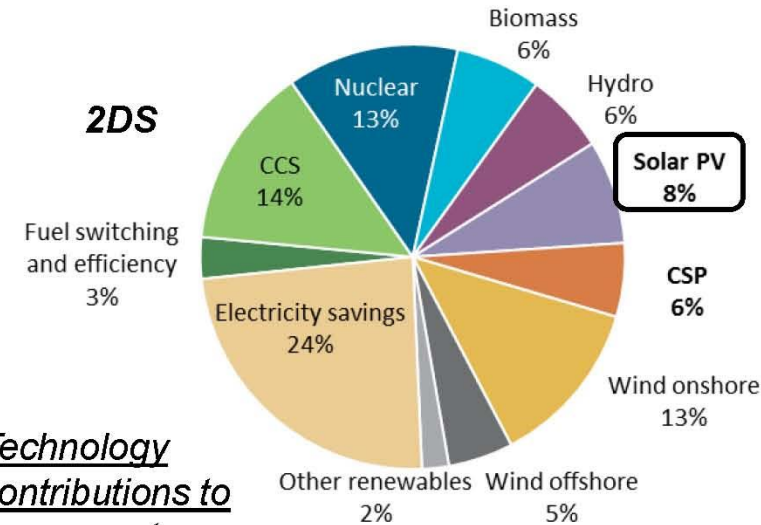
Power sector key to decarbonise the energy system

ETP
2014

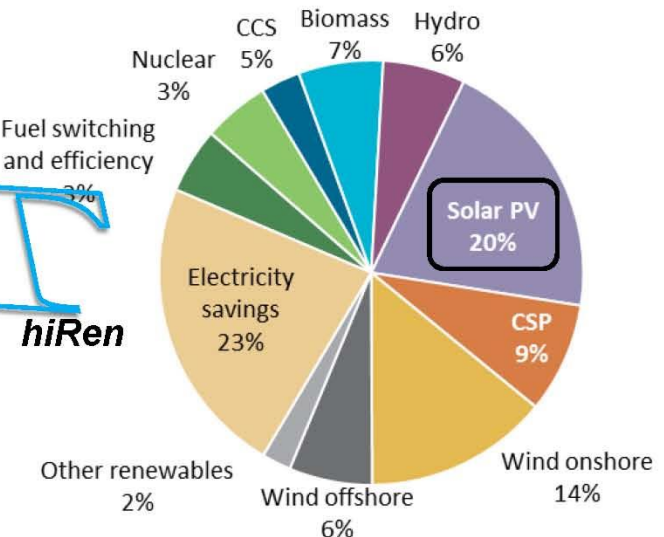
CO₂ reductions by sector (relative to 6DS)



2DS



Technology contributions to power sector reductions



hiRen

DRAFT

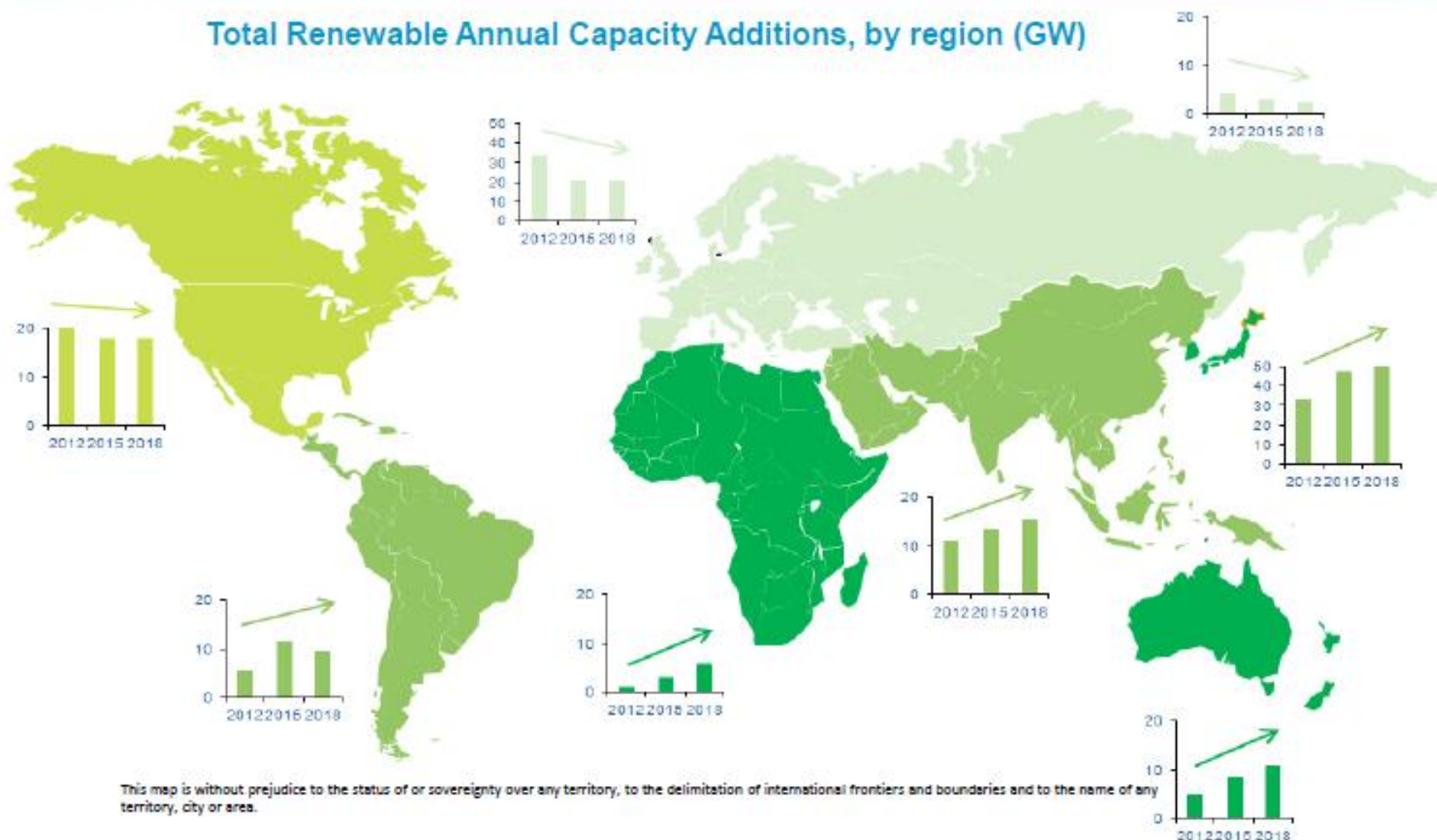
- Power sector provides for more than one third of the cumulative reductions to achieve the 2DS
- Solar PV responsible for 20% of the reductions in the power sector in the hiRen variant

Renewable power spreading out everywhere



Medium-Term
Renewable Energy Market Report 2013

Total Renewable Annual Capacity Additions, by region (GW)



- Emerging markets more than compensate for slowing growth and volatility in markets such as Europe and the US



Source: Wirz Solar, Mali

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Constat

1.7 milliards de personnes n'ont toujours pas accès à des services en énergie

Global Initiative Sustainable Energy for all

2011: UN Secretary-General Ban Ki-moon



L 'accès aux énergies durables pour tous -
objectifs 2030:

1. Accès aux services en énergie;
2. Doubler le niveau d'efficacité énergétique global;
3. Doubler la part des énergies renouvelables dans le système énergétique mondial.



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une réponse suisse:

des grandes initiatives aux
projets concrets

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L'approche REPIC

10 ans de coopération:

- Phase I: 2004 – 2007
- Phase II: 2008 – 2010
- Phase III: 2011 – 2013

Objectif de la plateforme REPIC:

Transfert de savoir et de technologies en vue du déploiement des énergies renouvelables et de l'efficacité énergétique dans les pays en voie de développement et en transition

1. Soutien aux projets
2. Réseaux, information et communication
3. Coordination et assurance qualité



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Projets: challenges multiples

- Au delà du projet pilote
- Multiplication des projets
- Viabilité économique
- Infrastructure
- Formation
- Financement
- Risques multiples
- Conditions cadres
- Stabilité politique
- etc.

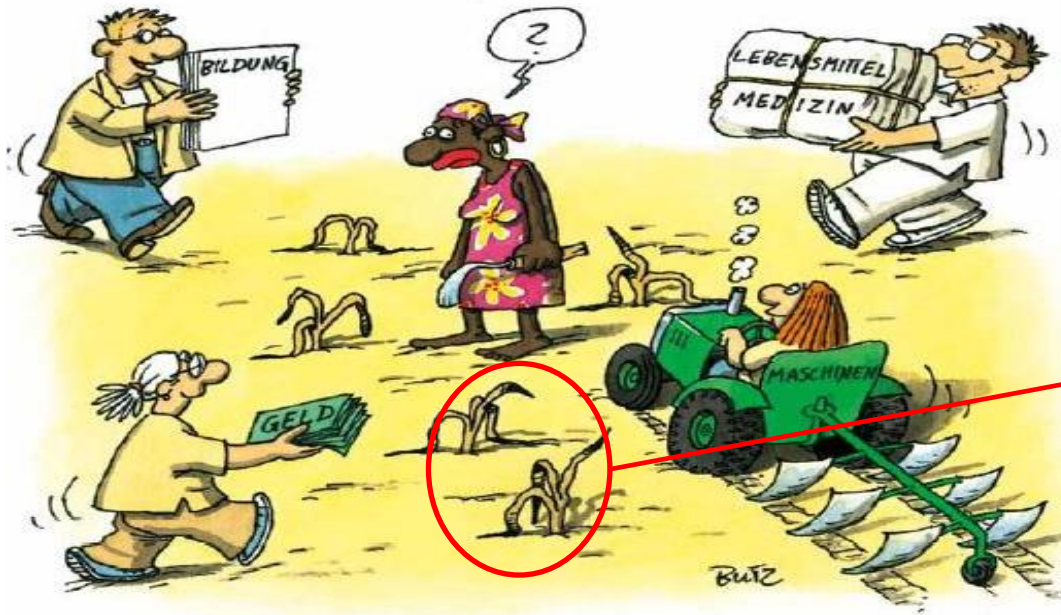
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L'approche REPIC

Principes

Projets réalistes, durables, orientés marché et répondants à un besoin local



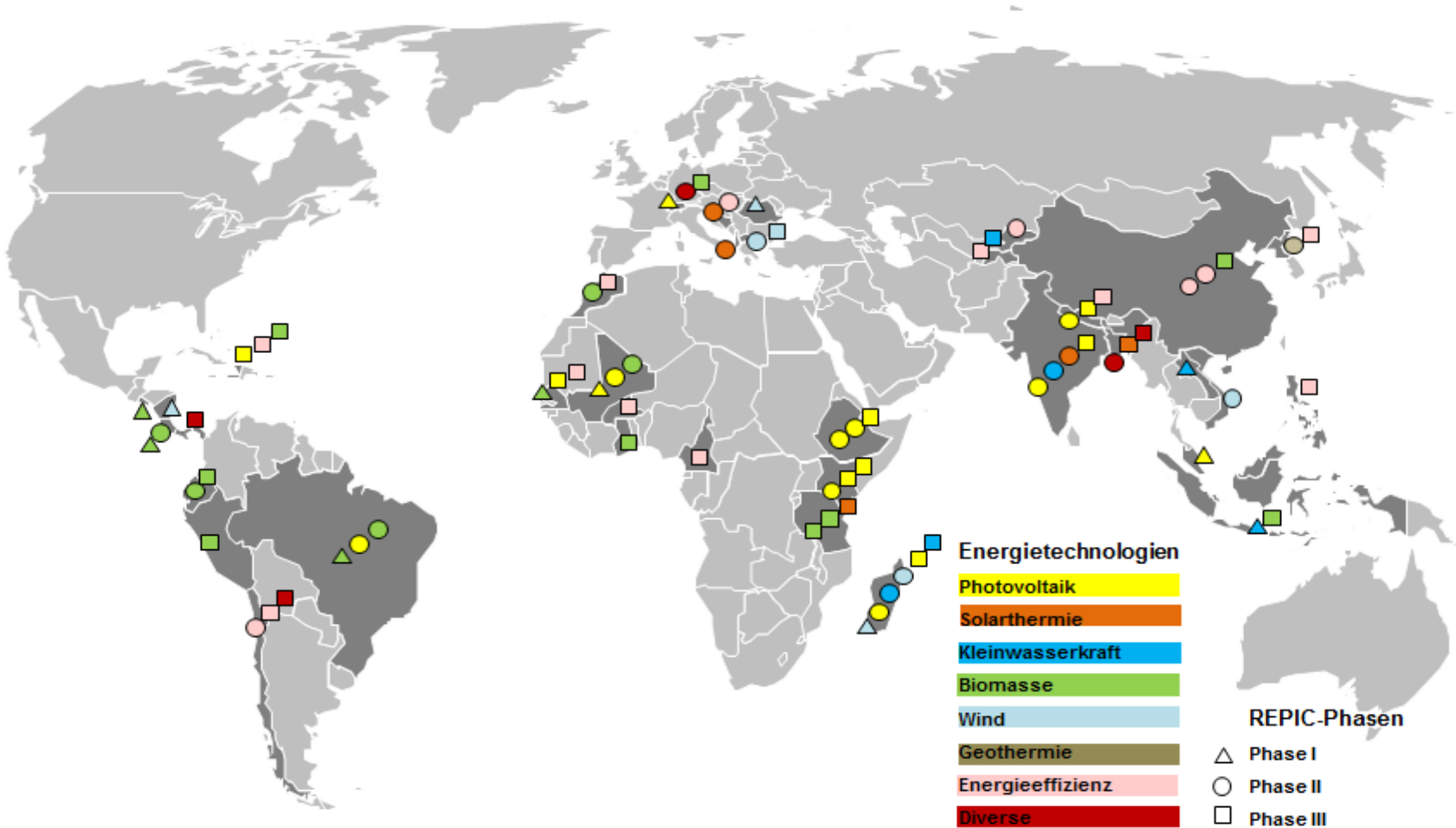
Caricature: S. Butz



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Des projets dans le monde entier



Exemple 1: Ethiopie – Solar Home Systems; Stiftung Solarenergie

Etablir

- les structures (centres solaires et formation)
- la production
- des systèmes de financement



Exemple 2: Brésil – Purification de l'eau sanitaire

- Etude de faisabilité
- Installation pilote pour la production de l'eau potable
- Joint Venture «Swiss Water Systems».
- Multiplication des installations pilotes
- Etablissement d'une production locale



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Source: Swiss Fresh Water, Sénégal