

**IEA Bioenergy:  
New Zealand Participation**

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**<http://www.ieabioenergy.com>**

- IEA Bioenergy
- Benefits of IEA Bioenergy participation
- New Zealand's participation
- Future

- International collaborative agreement set up in 1978 by the International Energy Agency (IEA)
- IEA Forestry Energy → IEA Bioenergy (1986)
  - ➔ to improve international cooperation and information exchange between national bioenergy RD&D programmes.
  - ➔ to realise the use of environmentally sound and cost-competitive bioenergy on a sustainable basis.
  - ➔ to provide a substantial contribution to meeting future energy demands.
- 19 countries participating plus EC.
- Series of Tasks to conduct work
- Forest Research is NZ Contracting

## Objectives

- **Promote market deployment of technologies**
- **Actively encourage the development of networks of participants involved in research, development, demonstration & deployment of bioenergy**
- **Increase the role of industry in IEA Bioenergy**
- **Increase membership**
- **Increase interactions with other global, multilateral energy and environmental programmes**

## The Tasks of IEA Bioenergy

- **Biomass resources:** Forestry and agricultural products, municipal solid waste
- **Bioenergy conversion:** Combustion, gasification, thermochemical and biochemical processes
- **Bioenergy utilization:** Heat and power production, transportation fuels
- **Integrating research themes:** Techno- and socio-economic and environmental analyses, greenhouse gas balances

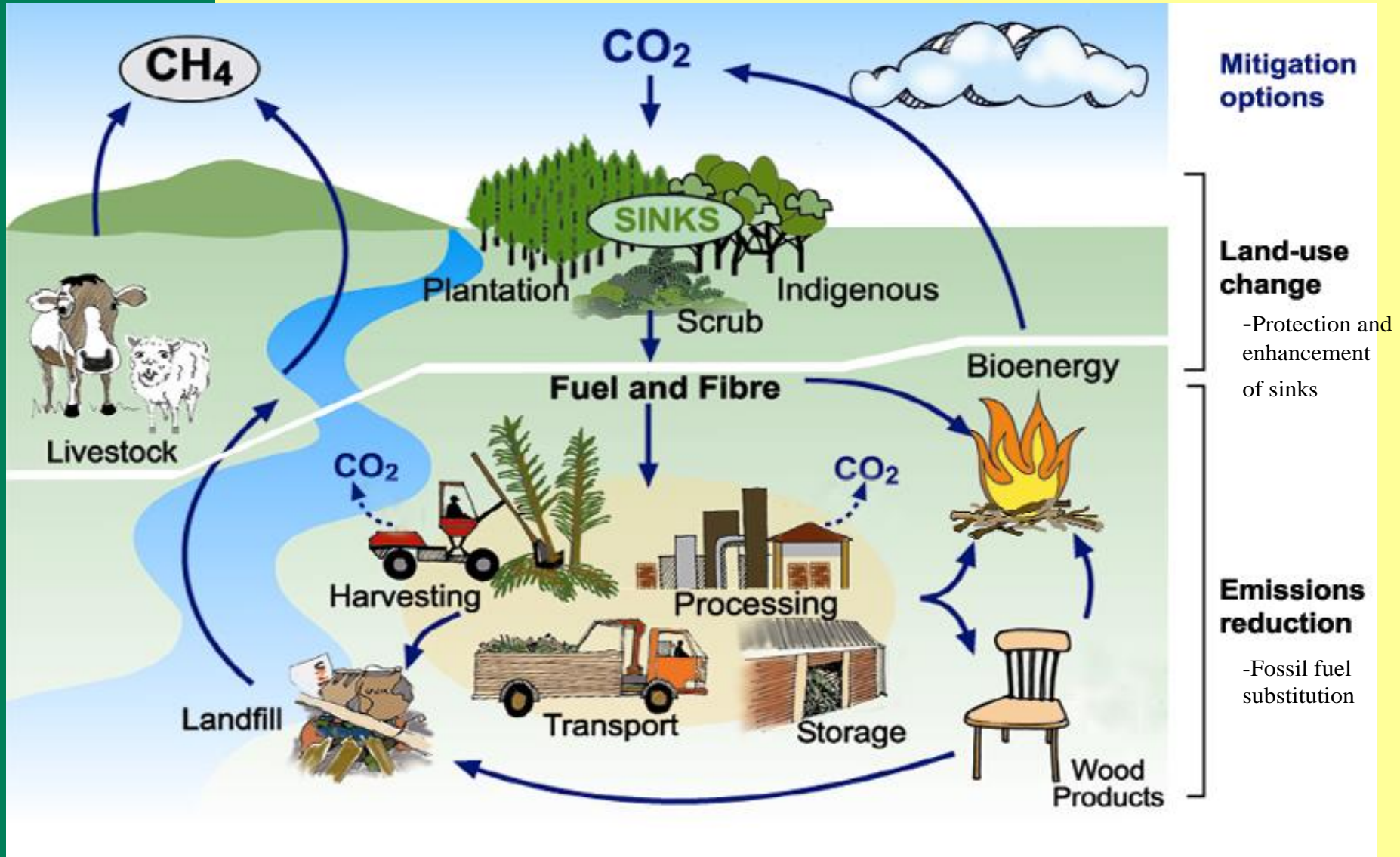
## Benefits of IEA Participation

- **Access to over \$500 million of bioenergy related research in 19 OECD countries.**
- **Access to an international pool of bioenergy related experts.**
- **Platform for collaborative R &D projects**
- **Participation in international meetings**
- **Benchmarking of research activities**
- **Access to latest reports and information on many aspects of bioenergy**

## Benefits of New Zealand Participation Strategy: Implementation of Kyoto

■	Projected emissions	440 Mt
■	Assigned amount	365
■	Net excess emissions	-75
■	Existing policies	
→	NEECS	20
→	Waste strategy	5
■	Net amount after existing policies	-50
■	Sink credits generated	105
■	Estimated net positive position	55

# IEA Bioenergy





## National Energy Efficiency and Conservation Strategy

### ■ Sets a renewable energy target

→ 30 PJ of additional renewable energy by 2012

→ Hydro, Wind, Geothermal, Biomass & other

→ Biomass can contribute 15PJ

- Improved use of biomass in the forest industries
- Co-generation, stand alone electricity
- Distributed energy (domestic heating, light commercial, light industrial, new industries)

### ■ IEA Bioenergy will play a key role in assisting New Zealand achieve this goal

## Future

- **New Zealand's participation is currently being restructured**
- **Move from Research Providers to Consortia**
- **Currently in 3 Tasks (SRC, Gasification, GHG)**
- **Encouraging other industries to become involved (Coal, Dairy)**
- **IEA Bioenergy participation should be a key component of Govt strategy for Kyoto compliance and achieving goals of NEECS**

**Further information**

**<http://www.ieabioenergy.com>**

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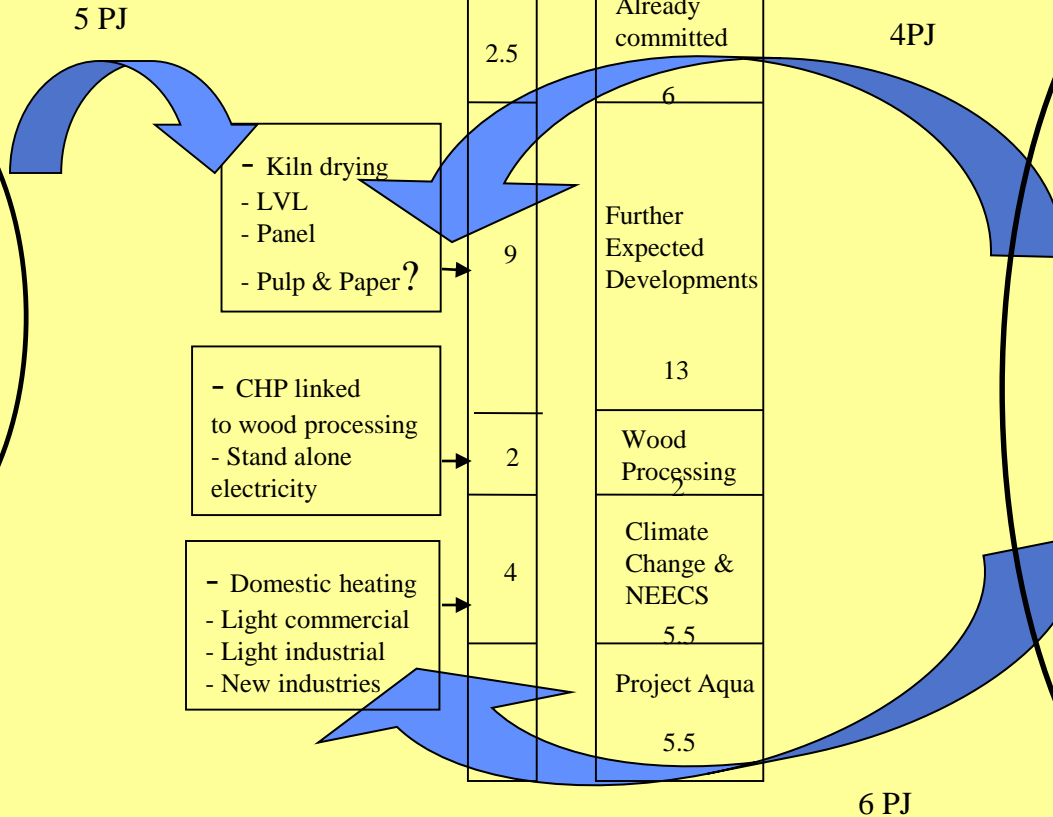
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Renewable Energy Target  
~ 30 PJ

Biomass Energy  
~15PJ

**Local Knowledge, Information & Data**



**International Knowledge Information Data**

- New Technologies
- Cost reduction
- New Players
- Decision support systems
- Techno economic assessments
- Supply chain systems