Circular economy outline

Monitoring the transition

Maikel Kishna
Overview

› Dutch CE-policy
› Measuring progress towards CE
› Circular firms in the Netherlands
CE policy in the Netherlands

› (2014 – VANG)
› 2016 – Government-wide programme
› 2017 – Raw materials agreement
› 2018 – Transition agenda’s
› 2018 – Letter to parliament
› 2019 – Implementation programme
Measuring the progress towards a CE

General framework for circular-economy targets and indicators

› Absolute reduction target
  - Resource demand
  - Environmental effects
  - Supply risks
  - Economic benefits

Source: PBL
Dutch resource use and effects

- DMI/DMC/RMI/RMC
- CO2
- Land use
- Jobs
- Added value
- Waste targets
- No acceleration towards CE
Measuring the transition process

- The transition process takes place before a shift in resource use/effects is visible
Circular firms

R-ladder of circularity strategies

- **R1. Refuse and Rethink**
  - Forgoing certain products or using them more intensively

- **R2. Reduce**
  - Manufacturing products more efficiently or making them more efficient to use

- **R3. Reuse**
  - Product reuse

- **R4. Repair and Refurbish**
  - Repair and reuse of product parts

- **R5. Recycle**
  - Processing and recycling of resources

- **R6. Recover**
  - Recovering energy from materials

Innovation in
- Product design
- Technology
- Business model

Source: PBL
Circular economy in the Netherlands

R-ladder met strategieën van circulariteit

- **Reduce**
  - R1. Refuse en rethink
  - Innovatie in:
    - Productontwerp
    - Technologie
    - Businessmodel
- **Reuse**
  - R2. Reduce
  - R3. Reuse
  - R4. Repair en remanufacturing
- **Recycle**
  - R5. Recycling
  - R6. Recover

- **Reuse**
- **Repair/Revision**
- **Recycle**

Bron: PBL

Circular economy outline – Maikel Kishna

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Circular activities are common

Circular activities per R-strategy, 2018

- Refuse and rethink (R1)
- Reduce (R2)
- Reuse (R3)
- Repair and refurbish (R4)
- Recycle (R5)
- Recover (R6)

Priority theme:
- Biomass and food
- Construction
- Consumer goods
- Plastics
- Manufacturing

Source: PBL
Innovative initiatives

Innovative circular initiatives, 2018

Share

Number of initiatives per R-strategy, 2018

Source: PBL
Thank you!

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