

Circular Economy Ontology Network (CEON) - Process Module

Metadata

IRI

<http://w3id.org/CEON/ontology/process/>

Title

Circular Economy Ontology Network (CEON) - Process Module

Creator

Huanyu Li

Contributor

Eva Blomqvist
Mikael Lindecrantz
Robin Keskisärkkä

Date Created

2024-11-23

License

<https://creativecommons.org/licenses/by/4.0/>

Version Iri

<http://w3id.org/CEON/ontology/process/0.4/>

Version Info

0.4

Preferred Namespace Prefix

process

Preferred Namespace Uri

<https://w3id.org/CEON/ontology/process/>

Description

The Process module of CEON (Circular Economy Ontology Network).

Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from
Onto-DESIDE D3.1: T8-2

In addition to requirements covered by imported ODPs, covers the following requirements from
Onto-DESIDE D2.3: T8-2

Classes

| | |
|---------------------|---|
| Energy ^C | |
| IRI | http://w3id.org/CEON/ontology/energy/energy/energy |
| Sub Class Of | resourceODP:Resource^C |
| In Range Of | needsEnergy^{op} |

| | |
|---------------------------------|---|
| Assembling Process ^C | |
| IRI | http://w3id.org/CEON/ontology/process/process/AssemblingProcess |
| Sub Class Of | processODP:TransformationProcess^C |

Buy Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/BuyResourceProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Co2Emission^C

IRI <http://w3id.org/CE0N/ontology/process/CO2Emission>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [producesCO2^{op}](#)

Cathalyst^C

IRI <http://w3id.org/CE0N/ontology/process/Cathalyst>

Sub Class Of [resourceODP:Resource^C](#)

In Range Of [usesCathalyst^{op}](#)

Change Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/ChangeResourceProcesses>

Sub Class Of [processODP:TransformationProcess^C](#)

Contact Process^C

IRI <http://w3id.org/CE0N/ontology/process/ContactProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Deconstruction Process^C

IRI <http://w3id.org/CE0N/ontology/process/DeconstructionProcesses>

Sub Class Of [processODP:TransformationProcess^C](#)

Disassembling Process^C

IRI <http://w3id.org/CE0N/ontology/process/DisassemblingProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Dismantle Process^C

IRI <http://w3id.org/CE0N/ontology/process/DismantleProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Ensure Claim Process^C

IRI <http://w3id.org/CE0N/ontology/process/EnsureClaimProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Issuing Certificate Process^C

IRI <http://w3id.org/CE0N/ontology/process/IssuingCertificateProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Manufacturing Process^C

IRI <http://w3id.org/CE0N/ontology/process/ManufacturingProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Offset Process^C

IRI <http://w3id.org/CE0N/ontology/process/OffsetProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Production Process^C

IRI <http://w3id.org/CE0N/ontology/process/ProductionProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Recycle Process^C

IRI <http://w3id.org/CE0N/ontology/process/RecycleProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Refurbishment Process^C

IRI <http://w3id.org/CE0N/ontology/process/RefurbishmentProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Remove Process^C

IRI <http://w3id.org/CE0N/ontology/process/RemoveProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Remove Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/RemoveResourceProcesses>

Sub Class Of [processODP:TransformationProcess^C](#)

Repair Process^C

IRI <http://w3id.org/CE0N/ontology/process/RepairProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Resell Process^C

IRI <http://w3id.org/CE0N/ontology/process/ResellProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Reuse Process^C

IRI <http://w3id.org/CE0N/ontology/process/ReuseProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Sell Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/SellResourceProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Service Process^C

IRI <http://w3id.org/CE0N/ontology/process/ServiceProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Share Resource Process^C

IRI <http://w3id.org/CE0N/ontology/process/ShareResourceProcess>

Sub Class Of [processODP:TransformationProcess^C](#)

Take Back Process^c

IRI <http://w3id.org/CE0N/ontology/process/TakeBackProcess>

Sub Class Of [processODP:TransformationProcess^c](#)

Transformation Process^c

IRI <http://w3id.org/CE0N/ontology/processODP/TransformationProcess>

Super Class Of

- [AssemblingProcess^c](#)
- [BuyResourceProcess^c](#)
- [ChangeResourceProcess^c](#)
- [ContactProcess^c](#)
- [DeconstructionProcess^c](#)
- [DisassemblingProcess^c](#)
- [DismantleProcess^c](#)
- [EnsureClaimProcess^c](#)
- [IssuingCertificateProcess^c](#)
- [ManufacturingProcess^c](#)
- [OffsetProcess^c](#)
- [ProductionProcess^c](#)
- [RecycleProcess^c](#)
- [RefurbishmentProcess^c](#)
- [RemoveProcess^c](#)
- [RemoveResourceProcess^c](#)
- [RepairProcess^c](#)
- [ResellProcess^c](#)
- [ReuseProcess^c](#)
- [SellResourceProcess^c](#)
- [ServiceProcess^c](#)
- [ShareResourceProcess^c](#)
- [TakeBackProcess^c](#)

Resource^c

IRI <http://w3id.org/CE0N/ontology/resourceODP/Resource>

In Range Of [resultingResource^{op}](#)

Super Class Of

- [http://w3id.org/CE0N/ontology/energy/Energy^c](http://w3id.org/CE0N/ontology/energy/Energy)
- [CO2Emission^c](#)
- [Cathalyst^c](#)

Object Properties

needs energy^{op}

IRI <http://w3id.org/CE0N/ontology/process/needsEnergy>

Sub Property Of [processODP:hasInput^{op}](#)

Range http://w3id.org/CE0N/ontology/energy/Energy_^c

produces co2^{op}

IRI <http://w3id.org/CE0N/ontology/process/producesCO2>

Sub Property Of [processODP:hasOutput^{op}](#)

Range [CO2Emission](#)^c

resulting resource^{op}

IRI <http://w3id.org/CE0N/ontology/process/resultingResource>

Sub Property Of [processODP:hasOutput^{op}](#)

Range [resourceODP:Resource](#)^c

uses catalyst^{op}

IRI <http://w3id.org/CE0N/ontology/process/usesCatalyst>

Sub Property Of [processODP:hasInput^{op}](#)

Range [Catalyst](#)^c

has input^{op}

IRI <http://w3id.org/CE0N/ontology/processODP/hasInput>

Super Property Of

- [needsEnergy^{op}](#)
- [usesCatalyst^{op}](#)

has output^{op}

IRI <http://w3id.org/CE0N/ontology/processODP/hasOutput>

Super Property Of

- [producesCO2^{op}](#)
- [resultingResource^{op}](#)

Annotation Properties

| | |
|--|---|
| contributor ^{ap} | |
| IRI | http://purl.org/dc/terms/contributor |
| created ^{ap} | |
| IRI | http://purl.org/dc/terms/created |
| creator ^{ap} | |
| IRI | http://purl.org/dc/terms/creator |
| description ^{ap} | |
| IRI | http://purl.org/dc/terms/description |
| license ^{ap} | |
| IRI | http://purl.org/dc/terms/license |
| title ^{ap} | |
| IRI | http://purl.org/dc/terms/title |
| preferred namespace prefix ^{ap} | |
| IRI | http://purl.org/vocab/vann/preferredNamespacePrefix |
| preferred namespace uri ^{ap} | |
| IRI | http://purl.org/vocab/vann/preferredNamespaceUri |
| covers requirements ^{ap} | |
| IRI | http://www.ontologydesignpatterns.org/schemas/cannotation-schema.owl#coversRequirements |

Namespaces

:

<http://w3id.org/CEON/ontology/process/>

dcterms

<http://purl.org/dc/terms/>

odp

<http://www.ontologydesignpatterns.org/schemas/cannotationschema.owl#>

owl

<http://www.w3.org/2002/07/owl#>

processODP

<http://w3id.org/CEON/ontology/processODP/>

prov

<http://www.w3.org/ns/prov#>

rdf

<http://www.w3.org/1999/02/22-rdf-syntax-ns#>

rdfs

<http://www.w3.org/2000/01/rdf-schema#>

resourceODP

<http://w3id.org/CEON/ontology/resourceODP/>

vann

<http://purl.org/vocab/vann/>

Legend

| | |
|----|--------------------------|
| c | Classes |
| op | Object Properties |
| ap | Annotation Properties |