

Circular Economy Ontology Network (CEON) - Process Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Process Module

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Version Iri

<http://w3id.org/CEON/ontology/process/0.1/>

Version Info

0.1

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

Classes

Assembling Process^C

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

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

Buy Resource Process^C

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

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

Co2Emission^C

IRI	http://w3id.org/CE0N/ontology/process/CO2Emission
<u>Sub Class Of</u>	resourceODP:Resource^C
<u>In Range Of</u>	producesCO2^{Op}

Cathalyst^C

IRI	http://w3id.org/CE0N/ontology/process/Cathalyst
<u>Sub Class Of</u>	resourceODP:Resource^C
<u>In Range Of</u>	usesCathalyst^{Op}

Change Resource Process^C

IRI	http://w3id.org/CE0N/ontology/process/ChangeResourceProcesses
<u>Sub Class Of</u>	processODP:Transformation^C

Contact Process^C

IRI	http://w3id.org/CE0N/ontology/process/ContactProcess
<u>Sub Class Of</u>	processODP:Transformation^C

Deconstruction Process^C

IRI	http://w3id.org/CE0N/ontology/process/DeconstructionProcesses
<u>Sub Class Of</u>	processODP:Transformation^C

Dismantle Process^C

IRI	http://w3id.org/CE0N/ontology/process/DismantleProcess
<u>Sub Class Of</u>	processODP:Transformation^C

Energy^C

IRI	http://w3id.org/CE0N/ontology/process/Energy
<u>Sub Class Of</u>	resourceODP:Resource^C
<u>In Range Of</u>	needsEnergy^{Op}

Ensure Claim Process^C

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

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

Issuing Certificate Process^C

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

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

Manufacturing Process^C

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

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

Offset Process^C

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

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

Production Process^C

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

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

Recycle Process^C

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

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

Refurbishment Process^C

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

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

Remove Process^C

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

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

Remove Resource Process^C

IRI	http://w3id.org/CE0N/ontology/process/RemoveResourceProcesses
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Repair Process^C

IRI	http://w3id.org/CE0N/ontology/process/RepairProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Resell Process^C

IRI	http://w3id.org/CE0N/ontology/process/ResellProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Reuse Process^C

IRI	http://w3id.org/CE0N/ontology/process/ReuseProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Sell Resource Process^C

IRI	http://w3id.org/CE0N/ontology/process/SellResourceProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Service Process^C

IRI	http://w3id.org/CE0N/ontology/process/ServiceProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Share Resource Process^C

IRI	http://w3id.org/CE0N/ontology/process/ShareResourceProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Take Back Process^C

IRI	http://w3id.org/CE0N/ontology/process/TakeBackProcess
<u>Sub Class Of</u>	<u>processODP:Transformation</u> ^C

Transformation^c

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

Super Class Of

[AssemblingProcess^c](#)
[BuyResourceProcess^c](#)
[ChangeResourceProcess^c](#)
[ContactProcess^c](#)
[DeconstructionProcess^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 [resultingProduct^{op}](#)

Super Class Of

[CO2Emission^c](#)
[Cathalyst^c](#)
[Energy^c](#)

Object Properties

needs energy^{op}

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

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

Range [Energy^c](#)

produces co2^{op}

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

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

Range [CO2Emission^c](#)

resulting product^{op}

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

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

Range [resourceODP:Resource^c](#)

uses cathalyst^{op}

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

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

Range [Cathalyst^c](#)

has input^{op}

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

Super Property Of

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

has output^{op}

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

Super Property Of

- [producesCO2^{op}](#)
- [resultingProduct^{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/CE0N/ontology/process/
dcterm
    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/CE0N/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/CE0N/ontology/resourceODP/
vann
    http://purl.org/vocab/vann/

```

Legend

c	Classes
op	Object Properties
ap	Annotation Properties