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/0.3/

Version Info

0.3

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

Energy [C]

IRI	http://w3id.org/CEON/ontology/energy/Energy
Sub Class Of	resourceODP:Resource [C]
In Range Of	needsEnergy [op]

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/CEON/ontology/process/CO2Emission
Sub Class Of	resourceODP:Resource ^C
In Range Of	producesCO2 ^{op}

Cathalyst ^C

IRI	http://w3id.org/CEON/ontology/process/Cathalyst
Sub Class Of	resourceODP:Resource ^C
In Range Of	usesCathalyst ^{op}

Change Resource Process ^C

IRI	http://w3id.org/CEON/ontology/process/ChangeResourceProcess
Sub Class Of	processODP:Transformation ^C

Contact Process ^C

IRI	http://w3id.org/CEON/ontology/process/ContactProcess
Sub Class Of	processODP:Transformation ^C

Deconstruction Process ^C

IRI	http://w3id.org/CEON/ontology/process/DeconstructionProcess
Sub Class Of	processODP:Transformation ^C

Disassembling Process ^C

IRI	http://w3id.org/CEON/ontology/process/DisassemblingProcess
Sub Class Of	processODP:Transformation ^C

Dismantle Process [C]

IRI   http://w3id.org/CEON/ontology/process/DismantleProcess

Sub Class Of   processODP:Transformation [C]

Ensure Claim Process [C]

IRI   http://w3id.org/CEON/ontology/process/EnsureClaimProcess

Sub Class Of   processODP:Transformation [C]

Issuing Certificate Process [C]

IRI   http://w3id.org/CEON/ontology/process/IssuingCertificatePr
                    ocess

Sub Class Of   processODP:Transformation [C]

Manufacturing Process [C]

IRI   http://w3id.org/CEON/ontology/process/ManufacturingProcess

Sub Class Of   processODP:Transformation [C]

Offset Process [C]

IRI   http://w3id.org/CEON/ontology/process/OffsetProcess

Sub Class Of   processODP:Transformation [C]

Production Process [C]

IRI   http://w3id.org/CEON/ontology/process/ProductionProcess

Sub Class Of   processODP:Transformation [C]

Recycle Process [C]

IRI   http://w3id.org/CEON/ontology/process/RecycleProcess

Sub Class Of   processODP:Transformation [C]

Refurbishment Process [C]

IRI   http://w3id.org/CEON/ontology/process/RefurbishmentProcess

Sub Class Of   processODP:Transformation [C]

Remove Process ^C

IRI	http://w3id.org/CEON/ontology/process/RemoveProcess
Sub Class Of	processODP:Transformation ^C

Remove Resource Process ^C

IRI	http://w3id.org/CEON/ontology/process/RemoveResourceProcess
Sub Class Of	processODP:Transformation ^C

Repair Process ^C

IRI	http://w3id.org/CEON/ontology/process/RepairProcess
Sub Class Of	processODP:Transformation ^C

Resell Process ^C

IRI	http://w3id.org/CEON/ontology/process/ResellProcess
Sub Class Of	processODP:Transformation ^C

Reuse Process ^C

IRI	http://w3id.org/CEON/ontology/process/ReuseProcess
Sub Class Of	processODP:Transformation ^C

Sell Resource Process ^C

IRI	http://w3id.org/CEON/ontology/process/SellResourceProcess
Sub Class Of	processODP:Transformation ^C

Service Process ^C

IRI	http://w3id.org/CEON/ontology/process/ServiceProcess
Sub Class Of	processODP:Transformation ^C

Share Resource Process ^C

IRI	http://w3id.org/CEON/ontology/process/ShareResourceProcess
Sub Class Of	processODP:Transformation ^C

Take Back Process ^C

IRI   http://w3id.org/CEON/ontology/process/TakeBackProcess

Sub Class Of   processODP:Transformation ^C

Transformation ^C

IRI   http://w3id.org/CEON/ontology/processODP/Transformation

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/CEON/ontology/resourceODP/Resource

In Range Of   resultingResource ^{op}

Super Class Of

     http://w3id.org/CEON/ontology/energy/Energy ^C
     CO2Emission ^C
     Cathalyst ^C

Object Properties

needs energy ^{op}

IRI	`http://w3id.org/CEON/ontology/process/needsEnergy`
Sub Property Of	processODP:hasInput ^{op}
Range	http://w3id.org/CEON/ontology/energy/Energy ^C

produces co2 ^{op}

IRI	`http://w3id.org/CEON/ontology/process/producesCO2`
Sub Property Of	processODP:hasOutput ^{op}
Range	CO2Emission ^C

resulting resource ^{op}

IRI	`http://w3id.org/CEON/ontology/process/resultingResource`
Sub Property Of	processODP:hasOutput ^{op}
Range	resourceODP:Resource ^C

uses cathalyst ^{op}

IRI	`http://w3id.org/CEON/ontology/process/usesCathalyst`
Sub Property Of	processODP:hasInput ^{op}
Range	Cathalyst ^C

has input ^{op}

IRI	`http://w3id.org/CEON/ontology/processODP/hasInput`
Super Property Of	• needsEnergy ^{op} • usesCathalyst ^{op}

has output ^{op}

IRI	`http://w3id.org/CEON/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/cpannotation schema.owl#coversRequirements

Namespaces

:

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

dcterms

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

odp

http://www.ontologydesignpatterns.org/schemas/cpannotationschema.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