

Distributed Intelligence for Cost-Effective and Reliable Distribution Network Operation



Deliverable D6.2 Annex B

Benchmark distribution network in CIM/XML format

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Confidential (Y / N): N



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Title of the Deliverable	Benchmark distribution network in CIM/XML format
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Task title	T6.2 Modelling of the scenarios and distributed intelligence solutions T6.3 Simulation tests of DISCERN solutions	

Main Author	CIRCE
Project partners involved	

Type (Distribution level)
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Status
<input type="checkbox"/> In Process
<input type="checkbox"/> In Revision
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1 MV benchmark distribution network in CIM/XML format

In chapter 2.2 of Deliverable D6.1, the need of using benchmark (also known as reference) networks is justified. Then, in section 2.2.1 of D6.1, the MV benchmark distribution network is defined by both its one-line diagram (i.e. the circuit diagram) and several tables containing its electric parameters. Therefore, considering the information provided in chapter 2 of D6.2, in the present section this MV reference network is converted into CIM/XML format using the power system simulation software that has been used to manually model the network, as follows:

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/>
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  <cim:Conductor.bch>8.24828e-005</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>1.3</cim:Conductor.length>
  <cim:Conductor.r>0.213096</cim:Conductor.r>
  <cim:Conductor.r0>1.13975</cim:Conductor.r0>
  <cim:Conductor.x>0.148967</cim:Conductor.x>
  <cim:Conductor.x0>0.487032</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line 3-8 (2)</cim:IdentifiedObject.name>
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/>
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  <cim:Conductor.bch>3.87035e-005</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
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  <cim:Conductor.r>0.0999912</cim:Conductor.r>
  <cim:Conductor.r0>0.534805</cim:Conductor.r0>
  <cim:Conductor.x>0.0698999</cim:Conductor.x>
  <cim:Conductor.x0>0.22853</cim:Conductor.x0>
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/>
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  <cim:Conductor.bch>0.000105959</cim:Conductor.bch>
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  <cim:Conductor.gch>0</cim:Conductor.gch>
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  <cim:Conductor.r>0.273746</cim:Conductor.r>
  <cim:Conductor.r0>1.46414</cim:Conductor.r0>
  <cim:Conductor.x>0.191365</cim:Conductor.x>
  <cim:Conductor.x0>0.625649</cim:Conductor.x0>
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/>
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  <cim:Conductor.gch>0</cim:Conductor.gch>
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  <cim:Conductor.r>0.0524544</cim:Conductor.r>
  <cim:Conductor.r0>0.280554</cim:Conductor.r0>
  <cim:Conductor.x>0.0366688</cim:Conductor.x>
  <cim:Conductor.x0>0.119885</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line 8-9 (1)</cim:IdentifiedObject.name>
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/>
  <cim:Conductor.b0ch>8.94621e-005</cim:Conductor.b0ch>
  <cim:Conductor.bch>8.94621e-005</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>1.41</cim:Conductor.length>
  <cim:Conductor.r>0.231127</cim:Conductor.r>
  <cim:Conductor.r0>1.23619</cim:Conductor.r0>
  <cim:Conductor.x>0.161572</cim:Conductor.x>
  <cim:Conductor.x0>0.528242</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
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/>
  <cim:Conductor.b0ch>3.5531e-005</cim:Conductor.b0ch>
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  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.56</cim:Conductor.length>
  <cim:Conductor.r>0.0917952</cim:Conductor.r>
  <cim:Conductor.r0>0.490969</cim:Conductor.r0>
  <cim:Conductor.x>0.0641704</cim:Conductor.x>
  <cim:Conductor.x0>0.209798</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line 4-5(1)</cim:IdentifiedObject.name>
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/>
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  <cim:Conductor.length>2.445</cim:Conductor.length>
  <cim:Conductor.r>0.400784</cim:Conductor.r>
  <cim:Conductor.r0>2.1436</cim:Conductor.r0>
  <cim:Conductor.x>0.280173</cim:Conductor.x>
  <cim:Conductor.x0>0.915995</cim:Conductor.x0>
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/>
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  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
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  <cim:Conductor.r0>0.655356</cim:Conductor.r0>
  <cim:Conductor.x>0.085656</cim:Conductor.x>
  <cim:Conductor.x0>0.280043</cim:Conductor.x0>
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/>
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  <cim:Conductor.gch>0</cim:Conductor.gch>
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  <cim:Conductor.r>0.126218</cim:Conductor.r>
  <cim:Conductor.r0>0.675082</cim:Conductor.r0>
  <cim:Conductor.x>0.0882343</cim:Conductor.x>
  <cim:Conductor.x0>0.288473</cim:Conductor.x0>
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/>
  <cim:Conductor.b0ch>1.52276e-005</cim:Conductor.b0ch>
  <cim:Conductor.bch>1.52276e-005</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
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  <cim:Conductor.r>0.0393408</cim:Conductor.r>
  <cim:Conductor.r0>0.210415</cim:Conductor.r0>
  <cim:Conductor.x>0.0275016</cim:Conductor.x>
  <cim:Conductor.x0>0.0899136</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
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<cim:Conductor.gch>0</cim:Conductor.gch>
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<cim:Conductor.r>0.0917952</cim:Conductor.r>
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<cim:Conductor.x>0.0641704</cim:Conductor.x>
<cim:Conductor.x0>0.209798</cim:Conductor.x0>
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<cim:BaseVoltage.isDC>false</cim:BaseVoltage.isDC>
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<cim:IdentifiedObject.name>110kV</cim:IdentifiedObject.name>
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  <cim:OperationalLimit.OperationalLimitSet rdf:resource="#_18D5982B-F74C-48C8-839D-A65298B3B552" />
  <cim:OperationalLimit.OperationalLimitType rdf:resource="#_EEDEE015-129C-48EA-B0AD-0B08B2531FAF" />
  <cim:VoltageLimit.value>21</cim:VoltageLimit.value>
</cim:VoltageLimit>
```



```

<cim:VoltageLimit rdf:ID="_E03F2787-430D-4E4E-9682-0828983564A9">
  <cim:IdentifiedObject.name>HighVoltage</cim:IdentifiedObject.name>
  <cim:OperationalLimit.OperationalLimitSet rdf:resource="#_D1D9EF70-F922-4E7F-961E-688E72DAA977" />
  <cim:OperationalLimit.OperationalLimitType rdf:resource="#_EEDEE015-129C-48EA-B0AD-0B08B2531FAF" />
  <cim:VoltageLimit.value>115.5</cim:VoltageLimit.value>
</cim:VoltageLimit>
<cim:VoltageLimit rdf:ID="_EE745782-F4C4-4AA9-8ADE-DE05074878A1">
  <cim:IdentifiedObject.name>HighVoltage</cim:IdentifiedObject.name>
  <cim:OperationalLimit.OperationalLimitSet rdf:resource="#_B5103381-0765-4F50-9744-376D71CC3CA8" />
  <cim:OperationalLimit.OperationalLimitType rdf:resource="#_EEDEE015-129C-48EA-B0AD-0B08B2531FAF" />
  <cim:VoltageLimit.value>21</cim:VoltageLimit.value>
</cim:VoltageLimit>
<cim:VoltageLimit rdf:ID="_F492A7A5-5CB9-45BB-967D-9947CACFBBFA">
  <cim:IdentifiedObject.name>HighVoltage</cim:IdentifiedObject.name>
  <cim:OperationalLimit.OperationalLimitSet rdf:resource="#_10A23D9A-3FA8-46FD-A91A-40F6438348F6" />
  <cim:OperationalLimit.OperationalLimitType rdf:resource="#_EEDEE015-129C-48EA-B0AD-0B08B2531FAF" />
  <cim:VoltageLimit.value>115.5</cim:VoltageLimit.value>
</cim:VoltageLimit>
<cim:VoltageLimit rdf:ID="_F9C43F03-5CB5-46EA-BC5A-6D33E9494A5D">
  <cim:IdentifiedObject.name>HighVoltage</cim:IdentifiedObject.name>
  <cim:OperationalLimit.OperationalLimitSet rdf:resource="#_E08E2CCB-979D-4EC6-8580-1C9DFB902094" />
  <cim:OperationalLimit.OperationalLimitType rdf:resource="#_EEDEE015-129C-48EA-B0AD-0B08B2531FAF" />
  <cim:VoltageLimit.value>21</cim:VoltageLimit.value>
</cim:VoltageLimit>
<cim:VoltageLimit rdf:ID="_FA363955-D8DB-4078-A5FC-BCE267D3BAA7">
  <cim:IdentifiedObject.name>HighVoltage</cim:IdentifiedObject.name>
  <cim:OperationalLimit.OperationalLimitSet rdf:resource="#_D19BD4E6-60F4-4D7B-85F4-3D6924D41F5C" />
  <cim:OperationalLimit.OperationalLimitType rdf:resource="#_EEDEE015-129C-48EA-B0AD-0B08B2531FAF" />
  <cim:VoltageLimit.value>21</cim:VoltageLimit.value>
</cim:VoltageLimit>
</rdf:RDF>

```

2 LV benchmark distribution network in CIM/XML format

In section 2.2.2 of D6.1, the LV benchmark distribution network is defined by both: its one-line diagram (i.e. the circuit diagram) and several tables containing its electric parameters. Therefore, considering the information provided in chapter 2 of D6.2, in the present section this LV reference network is converted into CIM/XML format using the power system simulation software that has been used to manually model the network, as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
xmlns:cim="http://iec.ch/TC57/2009/CIM-schema-cim14#">
  <cim:ACLineSegment rdf:ID="_0608A76E-EE2C-4A00-8F02-E3DFEA1540E4">
    <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
  />
    <cim:Conductor.b0ch>8.8329e-006</cim:Conductor.b0ch>
    <cim:Conductor.bch>2.00748e-005</cim:Conductor.bch>
    <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
    <cim:Conductor.gch>0</cim:Conductor.gch>
    <cim:Conductor.length>0.09</cim:Conductor.length>
    <cim:Conductor.r>0.045306</cim:Conductor.r>
    <cim:Conductor.r0>0.045306</cim:Conductor.r0>
    <cim:Conductor.x>0.02646</cim:Conductor.x>
    <cim:Conductor.x0>0.03681</cim:Conductor.x0>
    <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
    <cim:IdentifiedObject.name>Line (20)</cim:IdentifiedObject.name>
  </cim:ACLineSegment>
  <cim:ACLineSegment rdf:ID="_086C716D-2A87-4056-BCDE-6986DC6B2D82">
    <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
  />
    <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
    <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
    <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
    <cim:Conductor.gch>0</cim:Conductor.gch>
    <cim:Conductor.length>0.03</cim:Conductor.length>
    <cim:Conductor.r>0.033327</cim:Conductor.r>
    <cim:Conductor.r0>0.1656</cim:Conductor.r0>
    <cim:Conductor.x>0.00246</cim:Conductor.x>
    <cim:Conductor.x0>0.01254</cim:Conductor.x0>
    <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
    <cim:IdentifiedObject.name>Line (11)</cim:IdentifiedObject.name>
  </cim:ACLineSegment>
  <cim:ACLineSegment rdf:ID="_162EF62B-EBD2-4FD5-ABE9-B21572FCF88B">
    <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
  />
    <cim:Conductor.b0ch>1.1519e-005</cim:Conductor.b0ch>
    <cim:Conductor.bch>2.01219e-005</cim:Conductor.bch>
    <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
    <cim:Conductor.gch>0</cim:Conductor.gch>
    <cim:Conductor.length>0.105</cim:Conductor.length>
    <cim:Conductor.r>0.026145</cim:Conductor.r>
    <cim:Conductor.r0>0.11928</cim:Conductor.r0>
    <cim:Conductor.x>0.008715</cim:Conductor.x>
    <cim:Conductor.x0>0.043785</cim:Conductor.x0>
    <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
    <cim:IdentifiedObject.name>Line (8)</cim:IdentifiedObject.name>
  </cim:ACLineSegment>
  <cim:ACLineSegment rdf:ID="_3E66092A-9059-475B-8190-027484FD0470">
    <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
  />
    <cim:Conductor.b0ch>5.8886e-006</cim:Conductor.b0ch>
    <cim:Conductor.bch>1.33832e-005</cim:Conductor.bch>
    <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
    <cim:Conductor.gch>0</cim:Conductor.gch>
    <cim:Conductor.length>0.06</cim:Conductor.length>
    <cim:Conductor.r>0.020892</cim:Conductor.r>
    <cim:Conductor.r0>0.020892</cim:Conductor.r0>
    <cim:Conductor.x>0.01674</cim:Conductor.x>
    <cim:Conductor.x0>0.02454</cim:Conductor.x0>
    <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
```

```

    <cim:IdentifiedObject.name>Line (17)</cim:IdentifiedObject.name>
  </cim:ACLineSegment>
  <cim:ACLineSegment rdf:ID="_48F5F4CB-D42A-4378-95CD-97BA76C86CE8">
    <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
  />
  <cim:Conductor.b0ch>3.83965e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.7073e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.035</cim:Conductor.length>
  <cim:Conductor.r>0.008715</cim:Conductor.r>
  <cim:Conductor.r0>0.03976</cim:Conductor.r0>
  <cim:Conductor.x>0.002905</cim:Conductor.x>
  <cim:Conductor.x0>0.014595</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (1)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_669EBD27-F705-4E5D-8340-812DFEF3E824">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.010446</cim:Conductor.r>
  <cim:Conductor.r0>0.010446</cim:Conductor.r0>
  <cim:Conductor.x>0.00837</cim:Conductor.x>
  <cim:Conductor.x0>0.01227</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (14)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_6D6589C0-2357-41D6-9FC3-34BE4B80A17C">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.089115</cim:Conductor.r>
  <cim:Conductor.r0>0.4092</cim:Conductor.r0>
  <cim:Conductor.x>0.00282</cim:Conductor.x>
  <cim:Conductor.x0>0.01416</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (2)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_71884B16-BC0C-4746-BBA5-5CAE4F7018E2">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>3.83965e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.7073e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.035</cim:Conductor.length>
  <cim:Conductor.r>0.008715</cim:Conductor.r>
  <cim:Conductor.r0>0.03976</cim:Conductor.r0>
  <cim:Conductor.x>0.002905</cim:Conductor.x>
  <cim:Conductor.x0>0.014595</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (10)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_7D39F439-0C3E-4255-9DEB-54100FD189F6">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.033327</cim:Conductor.r>
  <cim:Conductor.r0>0.1656</cim:Conductor.r0>
  <cim:Conductor.x>0.00246</cim:Conductor.x>
  <cim:Conductor.x0>0.01254</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (19)</cim:IdentifiedObject.name>

```

```

</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_82F0CEB2-9018-4AC7-B5FB-C1242F07A0D8">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.033327</cim:Conductor.r>
  <cim:Conductor.r0>0.1656</cim:Conductor.r0>
  <cim:Conductor.x>0.00246</cim:Conductor.x>
  <cim:Conductor.x0>0.01254</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (18)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_8ABA0E8E-53D4-490C-97FA-E73B18CD6411">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.010446</cim:Conductor.r>
  <cim:Conductor.r0>0.010446</cim:Conductor.r0>
  <cim:Conductor.x>0.00837</cim:Conductor.x>
  <cim:Conductor.x0>0.01227</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (13)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_9309FDD6-4568-4650-9302-3FD1176E0C63">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.015102</cim:Conductor.r>
  <cim:Conductor.r0>0.015102</cim:Conductor.r0>
  <cim:Conductor.x>0.00882</cim:Conductor.x>
  <cim:Conductor.x0>0.01227</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (16)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_940BBCB9-FF6C-4305-894B-B0410C506067">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>1.96287e-005</cim:Conductor.b0ch>
  <cim:Conductor.bch>3.58142e-005</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.2</cim:Conductor.length>
  <cim:Conductor.r>0.03764</cim:Conductor.r>
  <cim:Conductor.r0>0.408</cim:Conductor.r0>
  <cim:Conductor.x>0.0142</cim:Conductor.x>
  <cim:Conductor.x0>0.0842</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (12)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_AFA3DC95-D551-43BB-98D2-B22C3CF67FE1">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>3.83965e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.7073e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.035</cim:Conductor.length>
  <cim:Conductor.r>0.008715</cim:Conductor.r>
  <cim:Conductor.r0>0.03976</cim:Conductor.r0>
  <cim:Conductor.x>0.002905</cim:Conductor.x>
  <cim:Conductor.x0>0.014595</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line</cim:IdentifiedObject.name>
</cim:ACLineSegment>

```



```
<cim:ACLineSegment rdf:ID="_B2EA12F2-A911-4CEB-A856-4C54941B5284">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.089115</cim:Conductor.r>
  <cim:Conductor.r0>0.4092</cim:Conductor.r0>
  <cim:Conductor.x>0.00282</cim:Conductor.x>
  <cim:Conductor.x0>0.01416</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (9)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_CEBE698A-EE41-441B-B807-4EAFE37FBE25">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>7.67931e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>1.34146e-005</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.07</cim:Conductor.length>
  <cim:Conductor.r>0.01743</cim:Conductor.r>
  <cim:Conductor.r0>0.07952</cim:Conductor.r0>
  <cim:Conductor.x>0.00581</cim:Conductor.x>
  <cim:Conductor.x0>0.02919</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (4)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_DC14E7E1-384B-4945-8644-DB928CE72805">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
  <cim:Conductor.b0ch>2.9443e-006</cim:Conductor.b0ch>
  <cim:Conductor.bch>6.69159e-006</cim:Conductor.bch>
  <cim:Conductor.g0ch>0</cim:Conductor.g0ch>
  <cim:Conductor.gch>0</cim:Conductor.gch>
  <cim:Conductor.length>0.03</cim:Conductor.length>
  <cim:Conductor.r>0.021036</cim:Conductor.r>
  <cim:Conductor.r0>0.1044</cim:Conductor.r0>
  <cim:Conductor.x>0.00243</cim:Conductor.x>
  <cim:Conductor.x0>0.01227</cim:Conductor.x0>
  <cim:Equipment.equivalent>>false</cim:Equipment.equivalent>
  <cim:IdentifiedObject.name>Line (7)</cim:IdentifiedObject.name>
</cim:ACLineSegment>
<cim:ACLineSegment rdf:ID="_DC89CC76-B503-482A-8412-F11EF737B5E5">
  <cim:ConductingEquipment.BaseVoltage rdf:resource="#_9F3E25C1-699C-497B-AA57-B4D22DAA6A96"
/>
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