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    - <xs:annotation>
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        2015</xs:documentation>
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    - <xs:annotation>
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        competenza</xs:documentation>
    </xs:annotation>
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      <xs:pattern value="[0-9][0-9]"/>
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    </xs:simpleType>
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    - <xs:sequence>
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        APE2015 STANDARD NAZIONALE"/>
      <xs:element name="versione" type="xs:string" fixed="12.00"/>
    </xs:sequence>
    </xs:complexType>
  - <xs:complexType name="typeDatiAttestato">
    - <xs:annotation>
      <xs:documentation>DATI obbligatori per l'invio al SIAPE</xs:documentation>
    </xs:annotation>
    - <xs:sequence>
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        - <xs:annotation>
          <xs:documentation>Codice ISTAT della Regione (01...20) o della
            Provincia autonoma (Bolzano=21 e Trento=22)</xs:documentation>
        </xs:annotation>
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- <xs:complexType name="typeDatiCatastali">
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                <xs:documentation>Codice CATASTALE del
                    Comune</xs:documentation>
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            </xs:simpleType>
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        - <xs:element name="tipoCatasto" default="1">
            - <xs:annotation>
                <xs:documentation>0=Catasto Terreni 1=Catasto Fabbricati 2=Catasto
                    Tavolare</xs:documentation>
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    - <xs:annotation>
      <xs:documentation>In caso di Catasto Tavolare inserire il Numero
        Immobile</xs:documentation>
    </xs:annotation>
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        <xs:element name="subA" type="typeSubalterno"/>
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- <xs:simpleType name="typeIndicePrestazione">
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</xs:simpleType>
- <xs:complexType name="typeClasseEnergetica">
  - <xs:sequence>
    - <xs:element name="classeEnergetica">
      - <xs:annotation>
        <xs:documentation>A4, A3, A2, A1, B, C, D, E, F, G</xs:documentation>
      </xs:annotation>
      - <xs:simpleType>
        - <xs:restriction base="xs:string">
          <xs:minLength value="1"/>
          <xs:maxLength value="2"/>
          <xs:enumeration value="A4"/>
          <xs:enumeration value="A3"/>
          <xs:enumeration value="A2"/>
          <xs:enumeration value="A1"/>
          <xs:enumeration value="B"/>
          <xs:enumeration value="C"/>
          <xs:enumeration value="D"/>
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- <xs:simpleType name="typeConsumoAnnuoUM">
    - <xs:annotation>
        <xs:documentation>0=Nm3 (opzione non utilizzabile dopo il 31/12/2016), 1=1
        (opzione non utilizzabile dopo il 31/12/2016), 2=kg, 3=kWh,
        4=Sm3</xs:documentation>
    </xs:annotation>
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        <xs:maxInclusive value="4"/>
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</xs:simpleType>
- <xs:complexType name="typeConsumoImpianto">
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        - <xs:element name="consumoAnnuo" type="typeConsumoAnnuo">
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                <xs:documentation>Quantità annua consumata in uso
                standard</xs:documentation>
            </xs:annotation>
        </xs:element>
        <xs:element name="consumoAnnuoUM" type="typeConsumoAnnuoUM"/>
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</xs:complexType>
- <xs:complexType name="typeConsumoImpiantoAltro">
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                <xs:documentation>Quantità annua consumata in uso
                standard</xs:documentation>
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                <xs:documentation>Descrizione della Fonte
                Energetica</xs:documentation>
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  </xs:complexType>
- <xs:complexType name="tipoInterventoRaccomandato">
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    - <xs:element name="codice">
      - <xs:annotation>
        <xs:documentation>0=REN1 1=REN2 2=REN3 3=REN4 4=REN5
          5=REN6 </xs:documentation>
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  - <xs:element name="tempoRitornoInvestimento" default="1">
    - <xs:annotation>
      <xs:documentation>espresso in anni</xs:documentation>
    </xs:annotation>
    - <xs:simpleType>
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        <xs:fractionDigits value="2"/>
        <xs:minInclusive value="0"/>
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  </xs:sequence>
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- <xs:simpleType name="typePrestazioneFabbricato">
  - <xs:annotation>
    <xs:documentation>0=SORRIDENTE (alta); 1=MEDIA (media); 2=TRISTE (bassa)
    </xs:documentation>
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  - <xs:restriction base="xs:unsignedByte">
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- <xs:complexType name="typePrestazioneGlobale">
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    - <xs:element name="prestazioneEnergeticaFabbricato">
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- <xs:element name="inverno" type="typePrestazioneFabbricato">
  - <xs:annotation>
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      (media) 2=TRISTE (bassa)</xs:documentation>
    </xs:annotation>
  </xs:element>
- <xs:element name="estate" type="typePrestazioneFabbricato">
  - <xs:annotation>
    <xs:documentation>0=SORRIDENTE (alta) 1=MEDIA
      (media) 2=TRISTE (bassa)</xs:documentation>
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</xs:sequence>
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- <xs:element name="prestazioneEnergeticaGlobale">
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    - <xs:sequence>
      <xs:element name="edificioEnergiaQuasiZero" type="xs:boolean"/>
      <xs:element name="classificazione" type="typeClasseEnergetica"/>
    </xs:sequence>
    </xs:complexType>
  </xs:element>
- <xs:element name="riferimenti">
  - <xs:annotation>
    <xs:documentation>Classificazione di immobili simili</xs:documentation>
  </xs:annotation>
  - <xs:complexType>
    - <xs:sequence>
      - <xs:element name="classificazioneNuovi"
        type="typeClasseEnergetica">
        - <xs:annotation>
          <xs:documentation>Si tratta dello stesso fabbricato calcolato
            con i requisiti minimi</xs:documentation>
        </xs:annotation>
      </xs:element>
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</xs:complexType>
- <xs:simpleType name="typeCodiceISTAT">
  - <xs:annotation>
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  </xs:annotation>
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                    continuativo 1=E1(1)bis collegi, luoghi di ricovero, case di pena,
                    caserme, conventi 2=E1(2) abitazioni adibite a residenza con
                    occupazione saltuaria 3=E1(3) edifici adibiti ad albergo, pensione ed
                    attività similari 4=E2 uffici e assimilabili 5=E3 ospedali, cliniche, case
                    di cura e assimilabili 6=E4(1) cinema e teatri, sale di riunione per
                    congressi e assimilabili 7=E4(2) mostre, musei e biblioteche, luoghi di
                    culto e assimilabili 8=E4(3) bar, ristoranti, sale da ballo e assimilabili
                    9=E5 attività commerciali e assimilabili 10=E6(1) piscine, saune e
                    assimilabili 11=E6(2) palestre e assimilabili 12=E6(3) servizi di
                    supporto alle attività sportive 13=E7 attività scolastiche 14=E8 attività
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- <xs:annotation>
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- <xs:simpleType>
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- <xs:element name="motivazione">
  - <xs:annotation>
    <xs:documentation>0=Nuova Costruzione 1=Passaggio di proprietà
      2=Locazione 3=Ristrutturazione importante 4=Riqualificazione
      Energetica 5=Altro</xs:documentation>
  </xs:annotation>
  - <xs:simpleType>
    - <xs:restriction base="xs:unsignedByte">
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- <xs:element name="altraMotivazione" type="xs:boolean">
  - <xs:annotation>
    <xs:documentation>Oltre alla "motivazione" indicata, è tuttavia possibile
      inserire un'ulteriore motivazione alla voce "Altro"</xs:documentation>
  </xs:annotation>
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- <xs:element name="descrizioneAltraMotivazione" minOccurs="0">
  - <xs:annotation>
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      (valorizzata solo se è presente "altraMotivazione")
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  </xs:annotation>
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 - <xs:sequence>
 - <xs:element name="immagine">
 - <xs:annotation>
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 - <xs:annotation>
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 - </xs:sequence>
 - </xs:complexType>
 - </xs:element>
 - <xs:element name="codiceISTAT" type="typeCodiceISTAT">
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 - </xs:element>
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 - </xs:element>
 - <xs:element name="piano">
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- <xs:element name="LatitudineGIS" type="xs:decimal">
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  </xs:annotation>
</xs:element>
- <xs:element name="zonaClimatica">
  - <xs:annotation>
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  - <xs:simpleType>
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<xs:element name="superficieUtileRaffrescato"
  type="typeSuperficieVolume"/>
<xs:element name="volumeLordoRiscaldato"
  type="typeSuperficieVolume"/>
<xs:element name="volumeLordoRaffrescato"
  type="typeSuperficieVolume"/>
- <xs:element name="catasto">
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    - <xs:sequence>
      - <xs:element name="datiCatastali"
        type="typeDatiCatastali" maxOccurs="unbounded">
        - <xs:annotation>
          <xs:documentation>E' possibile inserire più
            di un blocco di dati catastali per poter
            gestire qualsiasi situazione, anche il caso
            di edifici su più Comuni, etc. N.B. Deve
            essere gestita la STAMPA sull'
            APE.</xs:documentation>
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      </xs:element>
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- <xs:element name="serviziEnergeticiPresenti">
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        - <xs:annotation>
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            sempre attivo</xs:documentation>
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      <xs:element name="ventilazioneMeccanica" type="xs:boolean"/>
      - <xs:element name="produzioneAcquaCaldaSanitaria"
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        - <xs:annotation>
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    <xs:element name="biomasseGassose" type="typeConsumoImpianto"
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    <xs:element name="solareFotovoltaico" type="typeConsumoImpianto"
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    <xs:element name="solareTermico" type="typeConsumoImpianto"
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    <xs:element name="eolico" type="typeConsumoImpianto" minOccurs="0"/>
    <xs:element name="teleriscaldamento" type="typeConsumoImpianto"
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    <xs:element name="teleraffrescamento" type="typeConsumoImpianto"
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  </xs:sequence>

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    <xs:element name="altro" type="typeConsumoImpiantoAltro" minOccurs="0"/>
  - <xs:element name="epglren" type="typeIndicePrestazione">
    - <xs:annotation>
      <xs:documentation>Indica della prestazione energetica non
        rinnovabile</xs:documentation>
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  - <xs:element name="epglren" type="typeIndicePrestazione">
    - <xs:annotation>
      <xs:documentation>Indica della prestazione energetica
        rinnovabile</xs:documentation>
    </xs:annotation>
  </xs:element>
  <xs:element name="emissioniCO2" type="typeIndicePrestazione"/>
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</xs:complexType>
- <xs:complexType name="typeRaccomandazioni">
  - <xs:annotation>
    <xs:documentation>RIQUALIFICAZIONE ENERGETICA E
      RISTRUTTURAZIONE IMPORTANTE</xs:documentation>
  </xs:annotation>
  - <xs:sequence>
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  </xs:sequence>
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- <xs:complexType name="typeDatiEnergetici">
  - <xs:sequence>
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    - <xs:element name="vettoreEnergetico" default="0">
      - <xs:annotation>
        <xs:documentation>0=Energia elettrica 1=Energia termica 2=Altro
        </xs:documentation>
      </xs:annotation>
      - <xs:simpleType>
        - <xs:restriction base="xs:unsignedByte">
          <xs:minInclusive value="0"/>
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- <xs:complexType name="typeDatiImpianti">
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              - <xs:annotation>

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        <xs:documentation>alternativo ad
            "impiantoSimulato" (solo uno dei due)
        </xs:documentation>
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</xs:element>
- <xs:element name="impiantoSimulato" type="xs:string"
    fixed="SIMULATO IN QUANTO ASSENTE">
    - <xs:annotation>
        <xs:documentation>alternativo ad "impianto" (solo uno
            dei due)</xs:documentation>
    </xs:annotation>
    </xs:element>
</xs:choice>
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            <xs:element name="prestazione" type="typePrestazione"/>
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    </xs:complexType>
</xs:element>
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                    fixed="SIMULATO IN QUANTO ASSENTE">
                    - <xs:annotation>
                        <xs:documentation>alternativo ad "impianto" (solo uno
                            dei due)</xs:documentation>
                    </xs:annotation>
                </xs:element>
            </xs:choice>
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            <xs:element name="prestazione" type="typePrestazione"/>
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- <xs:element name="impiantiCombinati" minOccurs="0">
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        - <xs:sequence>
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```

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- <xs:element name="produzioneFontiRinnovabili" minOccurs="0">
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    </xs:complexType>
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        <xs:element name="superficieDisperdente" type="typeSuperficieVolume"/>
        <xs:element name="rapportoSV" type="typeRapporto"/>
        <xs:element name="ephnd" type="typeIndicePrestazione"/>
        <xs:element name="rapportoAsolAsupUtile" type="typeRapporto"/>
    - <xs:element name="yie" type="typeTrasmittanza">
        - <xs:annotation>
            <xs:documentation>Media pesata in base alle superfici esterne escluse
            quelle esposte fra N-NW e N-NE</xs:documentation>
        </xs:annotation>
    </xs:element>
</xs:sequence>
</xs:complexType>
- <xs:complexType name="typeImpianto">
    - <xs:sequence>
        - <xs:element name="tipoImpianto">
            - <xs:annotation>
                <xs:documentation>0=Caldaia standard 1=Caldaia a condensazione
                2=Stufa o caminetto 3=Riscaldamento elettrico 4=HP elettrica aria-aria
                5=HP elettrica aria-acqua 6=HP elettrica acqua-aria 7=HP elettrica
                acqua-acqua 8=HP ad assorbimento aria-aria 9=HP ad assorbimento
                aria-acqua 10=HP ad assorbimento acqua-aria 11=HP ad assorbimento
                acqua-acqua 12=HP a motore endotermico aria-aria 13=HP a motore
                endotermico aria-acqua 14=HP a motore endotermico acqua-aria
                15=HP a motore endotermico acqua-acqua 16=Impianto solare termico
                17=Impianto fotovoltaico 18=Cogeneratore 19=Teleriscaldamento
                20=Eolico 21=Ventilatori 22=Lampade ad incandescenza
                23=Lampade fluorescenti 24=Lampade a led 25=Lampade a scarica
                26=Ascensore a motore elettrico a fune con contrappeso 27=Ascensore
                a motore elettrico a fune con argano agganciato 28=Ascensore
                idraulico 29=Scala mobile 30=Marciapiede mobile 31=Altro
                32=Scalda-acqua autonomo istantaneo a gas 33=Scalda-acqua
                autonomo ad accumulo a gas 34=Scalda-acqua autonomo a pompa di
                calore 35=Scaldacqua a pompa di calore 36=Boiler elettrico
            </xs:documentation>
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    - <xs:simpleType>
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- <xs:element name="vettoriEnergeticiUtilizzati">
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        - <xs:annotation>
          <xs:documentation>0=Energia elettrica 1=Gas naturale
            2=GPL 3=Carbone 4=Gasolio e Olio combustibile -
            Opzione non utilizzabile dopo il 31/12/2016
            5=Biomasse solide 6=Biomasse liquide 7=Biomasse
            gassose 8=Solare fotovoltaico 9=Solare termico
            10=Eolico 11=Teleriscaldamento
            12=Teleraffrescamento 13=altro 14=Gasolio 15=Olio
            combustibile </xs:documentation>
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- <xs:element name="potenzaNominale">
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  </xs:annotation>
  - <xs:simpleType>
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    <xs:element name="epnren" type="typeIndicePrestazione"/>
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- <xs:complexType name="typeSoggettoCertificatore">
  - <xs:sequence>
    - <xs:element name="tipoSoggettoCertificatore">
      - <xs:annotation>
        <xs:documentation>0=Ente/organismo pubblico 1=Tecnico abilitato
        2=Organismo/società</xs:documentation>
      </xs:annotation>
      - <xs:simpleType>
        - <xs:restriction base="xs:unsignedByte">
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        </xs:restriction>
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    </xs:element>
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        - <xs:restriction base="xs:string">
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    </xs:element>
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      </xs:simpleType>
    </xs:element>
    - <xs:element name="denominazione" minOccurs="0">
      - <xs:annotation>
        <xs:documentation>Da compilare se "tipoSoggettoCertificatore" è diverso
        da 1 (Tecnico abilitato)</xs:documentation>
      </xs:annotation>
      - <xs:simpleType>
        - <xs:restriction base="xs:string">
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        </xs:restriction>
      </xs:simpleType>
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- <xs:simpleType>
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</xs:element>
- <xs:element name="titolo">
  - <xs:annotation>
    <xs:documentation>Titolo abilitante (iscrizione ordini/collegi; corso
      autorizzato da MiSE; corso autorizzato dalla Regione, ecc.)
    </xs:documentation>
  </xs:annotation>
  - <xs:simpleType>
    - <xs:restriction base="xs:string">
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  </xs:simpleType>
</xs:element>
- <xs:element name="ordineIscrizione" minOccurs="0">
  - <xs:annotation>
    <xs:documentation>Il campo deve contenere: Ordine, provincia e numero
      di iscrizione separati dal carattere [;] (punto e virgola)
    </xs:documentation>
  </xs:annotation>
  - <xs:simpleType>
    - <xs:restriction base="xs:string">
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    </xs:restriction>
  </xs:simpleType>
</xs:element>
- <xs:element name="dichiarazioneIndipendenza" default="0">
  - <xs:annotation>
    <xs:documentation>0=Il sottoscritto certificatore, consapevole delle
      responsabilità assunte ai sensi degli artt.359 e 481 del Codice Penale,
      DICHIARA di aver svolto con indipendenza ed imparzialità di
      giudizio l'attività di Soggetto Certificatore del sistema edificio
      impianto oggetto del presente attestato e l'assenza di conflitto di
      interessi ai sensi dell'art.3 del D.P.R. 16 aprile 2013, n. 75.
      1=Dichiarazione di indipendenza specifica della
      Regione</xs:documentation>
  </xs:annotation>
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- <xs:complexType name="typeSoftwareUtilizzato">
  - <xs:sequence>
    - <xs:element name="requisitiRispondenzaRisultati" type="xs:boolean"
      default="1">
      - <xs:annotation>
        <xs:documentation>Il software utilizzato risponde ai requisiti di
          rispondenza e garanzia di scostamento massimo dei risultati conseguiti
          rispetto ai valori ottenuti per mezzo dello strumento di riferimento
          nazionale ?</xs:documentation>
      </xs:annotation>
    </xs:element>
    - <xs:element name="calcoloSemplificato" type="xs:boolean" default="0">
      - <xs:annotation>
        <xs:documentation>Ai fini della redazione del presente attestato è stato
          utilizzato un software che impieghi un metodo di calcolo
          semplificato ?</xs:documentation>
      </xs:annotation>
    </xs:element>
  </xs:sequence>
</xs:complexType>
- <xs:complexType name="typeDatiExtra">
  - <xs:annotation>
    <xs:documentation>DATI aggiuntivi</xs:documentation>
  </xs:annotation>
  - <xs:sequence>
    - <xs:element name="comune">
      - <xs:annotation>
        <xs:documentation>Denominazione del COMUNE</xs:documentation>
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        </xs:restriction>

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        - <xs:annotation>
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        - <xs:annotation>
            <xs:documentation>DATA del sopralluogo</xs:documentation>
        </xs:annotation>
    </xs:element>
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        - <xs:annotation>
            <xs:documentation>DENOMINAZIONE del software
                utilizzato</xs:documentation>
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    </xs:element>
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        - <xs:annotation>
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- <xs:element name="ephndLim" type="xs:decimal">
  - <xs:annotation>
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      riscaldamento (calcolata con l'edificio di riferimento)
    </xs:documentation>
  </xs:annotation>
</xs:element>
- <xs:element name="EPglInrenRifStandard" type="xs:decimal">
  - <xs:annotation>
    <xs:documentation>Indice di prestazione energetica GLOBALE
      dell'edificio di riferimento per la costruzione della scala delle classi
      energetiche. DM 26/06/2015 LINEE GUIDA - Punto
      5.1</xs:documentation>
  </xs:annotation>
</xs:element>
- <xs:element name="idCatastale" minOccurs="0">
  - <xs:annotation>
    <xs:documentation>Ulteriore, eventuale, identificativo catastale per
      subalterni di edifici pubblici, etc.</xs:documentation>
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- <xs:element name="proprietaEdificio">
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      Pubblico</xs:documentation>
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</xs:element>
- <xs:element name="codiceEdificioScolastico" minOccurs="0">
  - <xs:annotation>
    <xs:documentation>Se l'elemento classificazioneDPR412 è pari a 13
      (E7=Attività scolastica) occorre indicare il Codice Edificio costituito
      da 10 caratteri numerici.</xs:documentation>
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    (bifamiliare) 2=Edificio isolato (plurifamiliare) 3=Edificio in Linea
    4=Edificio a Schiera 5=Edificio a Corte 6=Edificio a Torre 7=Edificio
    a Blocco 8=Edificio a Piastra 9=Altro</xs:documentation>
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- <xs:element name="tipologiaCostruttiva">
  - <xs:annotation>
    <xs:documentation>0=Struttura in muratura portante 1=Struttura in c.a.
    (con chiusure in laterizi) 2=Struttura in c.a. (con chiusure continue in
    vetro) 3=Struttura in c.a. (con chiusure in pannelli prefabbricati)
    4=Struttura in acciaio (con chiusure in muratura) 5=Struttura in acciaio
    (con facciate continue in vetro) 6=Struttura in acciaio (con chiusure in
    pannelli prefabbricati) 7=Struttura in legno 8=Struttura prefabbricata
    in c.a. 9=Struttura mista (c.a. e laterizi) 10=Struttura mista (c.a. e
    acciaio) 11=Struttura mista (acciaio e muratura) 12=Struttura mista
    (muratura e legno) 13=Struttura mista (altro)
    14=Altro</xs:documentation>
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