



Sustainable  
Construction  
in Rural and Fragile Areas  
for Energy efficiency

# REGULATION FRAMWORK

## European, Spanish and Andalusian Regional Regulations

### European Law

**Directive 2010/30/EU of the European Parliament and the Council of 19 May 2010** on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:153:0001:0012:EN:PDF>

**Directive 2010/31/EU of the European Parliament and the Council of 19 may 2010**, on the energy performance of buildings.

Long-term commitment to maintain the global temperature increase below 2°C and its commitment to reduce, by 2020, total emissions of greenhouse gases by at least 20% over 1990 levels and 30% if international agreement is reached.

Building energy consumption almost with an high energy efficiency, determined in accordance with Annex I. The amount almost nil or very low energy requirements should be covered in a very large extent by energy from renewable sources, including renewable energy sources produced in situ or in the environment.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2010:153:0013:0035:EN:PDF>

**Directive 2002/91/EC of the European Parliament and the Council of 16 december 2002**, on the energy performance of buildings.

Purpose:

- Decrease energy expenditure
- Lower the discharge of CO<sub>2</sub> into the atmosphere

Promotes:

- Energy Efficiency
- Methodology for calculating energy efficiency
- Appearance of the Certificate of energy efficiency
- Periodic review of boilers and A/C

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Groups of measures:

- Hardening the regulations
- Promotion of new buildings whose consumption is less than that derived from the strict application of regulations
- Identification of improvement measures in existing buildings

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:001:0065:0071:EN:PDF>

**Directive 2006/32/EC of the European Parliament and the Council of 5 april 2006**, on energy end-use efficiency and energy services and repealing Council Directive 93/76/EEC.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:114:0064:0085:EN:PDF>

**Directive 94/62/EC of the European Parliament and the Council of 20 december 1994**, on packaging and packaging waste.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:1994:365:0010:0023:EN:PDF>

**Directive 2004/12/EC, of the European Parliament and the Council of 11 february 2004**, that modify the Directive 94/62/EC on packaging and packaging waste.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2004:047:0026:0031:EN:PDF>

**Directive 2005/20/EC of the European Parliament and the Council of 9 march 2005**, that modify the Directive 94/62/EC on packaging and packaging waste.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2005:070:0017:0018:EN:PDF>

**Council Directive 1999/31/EC of 26 April 1999**, on the landfill of waste.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:1999:182:0001:0019:EN:PDF>

**Directive 96/59/EC of the Council**, on the disposal of polychlorinated biphenyls (PCBs) and policloterfenilos (PCTs).

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:1996:243:0031:0035:EN:PDF>

**Directive 2000/76/EC of the European Parliament and the Council of 4 december 2000**, on the incineration of waste.

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2000:332:0091:0111:EN:PDF>

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**Directive 2002/96/EC of the European Parliament and the Council of 27 January 2003, on waste electrical and electronic equipment (WEEE).**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:037:0024:0038:EN:PDF>

**Directive 2003/108/EC of the European Parliament and of the Council of 8 December 2003 amending Directive 2002/96/EC on waste electrical and electronic equipment (WEEE).**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2003:345:0106:0107:EN:PDF>

**Directive 2006/66/EC of the European Parliament and of the Council of 6 September 2006, on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC.**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:266:0001:0014:EN:PDF>

**Directive 2008/103/EC of the European Parliament and of the Council of 19 November 2008, amending Directive 2006/66/EC on batteries and accumulators and waste batteries and accumulators as regards placing batteries and accumulators on the market.**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:327:0007:0008:EN:PDF>

**Directive 2008/1/EC of the European Parliament and of the Council of 15 January 2008, concerning integrated pollution prevention and control**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:024:0008:0029:EN:PDF>

**Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008, on waste and repealing certain Directives**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:312:0003:0030:EN:PDF>

**Regulation (EC) No 1013/2006 of the European Parliament and of the Council of 14 June 2006, on shipments of waste.**

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:190:0001:0098:EN:PDF>

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## Spanish Law

### **Royal Decree 314/2006, 17 march**

Technical Building Code. Approval of the Technical Building Code.

General:

- Structural safety. (SE)
- Safety in case of fire. (SI)
- Safe to use. (SU)
- Health. (HS)
- Protection against noise. (HR)
- Energy saving. (HE)

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2006-5515](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2006-5515)

### **Order VIV/984/2009, 15 april**

Amending certain basic documents of the Technical Building Code approved by Royal Decree 314/2006 of 17 march 17, and Royal Decree 1371/2007 of 19 october.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2009-6743](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2009-6743)

### **Royal Decree 1371/2007, 19 october**

Approving the basic document "DB-HR Protection against noise" of the Technical Building Code and amending Royal Decree 314/2006 of 17 March, which approves the Technical Building Code.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2007-18400](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2007-18400)

### **Law 26/2007, 23 october**

Environmental liability law.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2007-18475](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2007-18475)

### **Royal Decree 47/2007, 19 january**

Construction-Energy. Basic procedure is approved for Certification of energy efficiency of new buildings.

Scope:

- New buildings.
- Modifications, alterations or renovations of existing buildings with a floor area exceeding 1,000 m<sup>2</sup> where more than 25 per Cent of total enclosures is renovated.

Excluded:

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- Those buildings that must remain open.
- Buildings and monuments officially protected.
- Buildings used as places of worship or religious activities.
- Temporary buildings with a planned time of use less than two years.
- Industrial and agricultural buildings.
- Buildings insulated with a total useful floor area less than 50 m<sup>2</sup>.
- Buildings of technical simplicity and low constructive entity.

## Definitions

- Energy efficiency of a building: Energy consumption deemed necessary to meet the energy demand of the building in normal operating conditions and occupation.
- Calificación de eficiencia energética de un edificio. Expresión de la eficiencia energética de un edificio que se determina de acuerdo con una metodología de cálculo y se expresa con indicadores energéticos mediante la etiqueta de eficiencia energética.
- Energy efficiency rating of a building. Expression of the energy efficiency of a building that is determined in accordance with a methodology of calculation and energy indicators expressed through the energy efficiency label.
- Certification of Energy Efficiency Design: The process by which verifies the conformity of the energy efficiency rating obtained by the project and leading to the issuance of the Certificate of energy efficiency project.
- Certification of energy efficiency of the finished building: The process by which verifies the conformity of the energy efficiency rating obtained by the project with the finished building and leading to the issuance of the Certificate of energy efficiency of the finished building.

## General:

- Valid 10 years.
- The energy label should appear on all advertising.
- Obligation to display their rating of the administration building.
- Delivery of the Certificate in building rental or sale
- Rating of local uses not defined in project.
- Score from A to G.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2007-2007](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2007-2007)

## Law 9/2006, 28 april

Environment. Evaluation of the effects of certain plans and programs on the environment.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2006-7677](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2006-7677)

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### **Royal Legislative Decree 1/2007, 16 november**

General law for the protection of consumers and users allows the buyer of a newly built housing to require the seller a "Quality Specifications".

The "Quality Specifications" must legally include at least the following information on energy aspects.

- Thickness, in centimeters of the building thermal insulation.
- Class of thermal and acoustic insulation used.
- Types of windows and glazing.
- Description of the heating and hot water facilities.
- Specification of the automatic control provided for such heating and hot water facilities.
- Number and power of the boilers.
- Volume of hot water storage.
- Energy Certification of the building.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2007-20555](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2007-20555)

### **Royal Decree 1027/2007, 20 july**

Regulation of Thermal Installations in Buildings (RITE) and its Complementary Technical Instructions. For heating, air conditioning and hot water facilities.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2007-15820](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2007-15820)

### **Royal Decree 1826/2009, 20 july**

Ammending Regulation of Thermal Installations in Buildings (RITE), approved by Royal Decree 1027/2007 of July 20.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2009-19915](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2009-19915)

### **Law 11/2005, 22 june**

Water supply. Amendment of Law 10/2001 of 5 July, the National Hydrological Plan.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2005-10622](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2005-10622)

### **Royal Decree 430/2004, 12 march**

Air Pollution. Establishing new rules on the limitation of air emissions of certain pollutants from large combustion plants, and laying down certain conditions for the control of air emissions from oil refineries.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2004-5117](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2004-5117)

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### **Royal Decree 1796/2003, 26 december**

Environment. Ozone in ambient air.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2004-616](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2004-616)

### **Resolution 11 september 2003**

Air Pollution. National Programm of progressive reduction of national emissions of sulfur dioxide (SO<sub>2</sub>), nitrogen oxide (NO<sub>x</sub>), volatile organic compounds (VOCs) and ammonia (NH<sub>3</sub>).

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2003-17811](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2003-17811)

### **Royal Decree 117/2003, 31 january**

Environment. Limitation of emissions of volatile organic compounds due to the use of solvents in certain activities.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2003-2515](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2003-2515)

### **Royal Decree 1434/2002, 27 december**

Gas. Regulates the activities of transportation, distribution, marketing, supply and authorization procedures for natural gas facilities.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2002-25421](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2002-25421)

### **Law 16/2002, 1 july,**

Regulation of prevention and control of pollution.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2002-12995](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2002-12995)

### **Law 6/2001, 8 may**

Modification of Legislative Royal Decree 1302/1986, 28 june, about Environmental Impact Assessment.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2001-8866](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2001-8866)

### **Law 38/1999, 5 november**

Construction Planning. Deadlines liability of different agents involved in the construction and basic requirements of the buildings.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1999-21567](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1999-21567)

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### **Royal Decree 1339/1999, 31 july**

Fuels. Approval of the Regulations of the National Energy Commission.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1999-18000](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1999-18000)

### **Law 11/1997, 24 april**

Regulation on Packaging and Packaging Waste, which transposes Directive 94/62/EC.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1997-8875](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1997-8875)

### **Royal Decree 952/1997, 20 june**

Amending Regulations for the Implementation of the Law 20/1986 of 14 May, Basic Toxic and Hazardous Waste, approved by Royal Decree 833/1988, of 20 july.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1997-14934](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1997-14934)

### **Royal Decree 108/1991, 1 february**

Asbestos and Pollution. Prevention and reduction of environmental pollution by asbestos.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1991-3212](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1991-3212)

### **Order 30 july 1990**

Gas. Modify the Technical Instruction MIE-AG-7 of the Rules of Equipment using gas as fuel: instantaneous water heaters for sanitary uses.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1990-19379](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1990-19379)

### **Royal Decree 833/1988, 20 july**

Approving the Regulations for the Implementation of the Law 20/1986, Basic Hazardous and Toxic Waste.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1988-18848](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1988-18848)

### **Act 2183/1968, 16 august**

Environment. Regulates the application of the Rules of annoying, unhealthy, harmful and dangerous activities, approved by Act 2414/1961 of 30 November, in the public domain areas and activities by government agencies.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1968-1091](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1968-1091)

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### **Act 3494/1964, 5 november**

Industries annoying, unhealthy, harmful and dangerous. Amendment of several articles of the General Regulations of troublesome, unhealthy, harmful and dangerous, approved by Act 2414/1964 of 30 november.

<http://www.boe.es/boe/dias/1964/11/06/pdfs/A14523-14524.pdf>

### **Order 15 march 1963**

Industries annoying, unhealthy, harmful and dangerous. Instruction is approved for additional rules that are issued for implementation of the Regulation of troublesome, unhealthy, harmful and dangerous.

<http://www.boe.es/boe/dias/1963/04/02/pdfs/A05553-05557.pdf>

### **Act 2414/1961, 30 november**

Approval of the Rules of troublesome, unhealthy, harmful and dangerous.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-1961-22449](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-1961-22449)

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## Andalusian Regional Law and Seville Local Law

### **Act 169/2011, 31 may, approving the Regulation for the Promotion of Renewable Energy Saving and Energy Efficiency in Andalusia.**

Regulation of Promotion of Renewable Energy Saving and Energy Efficiency in Andalusia. This Act is enacted in development and implementation of the Law 2 / 2007 of 27 march, to promote renewable energy and energy efficiency savings and Andalusia

<http://www.juntadeandalucia.es/boja/boletines/2011/112/d/2.html>

### **Order 25 june 2008**

Electronic registration of certificates of energy efficiency in new construction buildings.

- Improved administrative control of the certificates
- Simple mechanism to access user information
- The developer or owner is required to enroll in the registry
- Sets the format of the certificate, the project and the finished building.

<http://www.juntadeandalucia.es/boja/boletines/2008/145/d/3.html>

### **Law 7/2007, 9 july**

Environment. GICA Law, "Integrated Management of Environmental Quality."

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2007-15158](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2007-15158)

### **Agreement 5 june 2007**

Environment. Approves the Andalusian Plan of Action for Climate 2007-2012: Mitigation Program.

<http://www.juntadeandalucia.es/boja/boletines/2007/125/d/1.html>

### **Agreement 13 june 2006**

Energy. Approves the development of the Andalusian Sustainable Energy Plan 2007-2013 (PASENER 2007-2013).

<http://www.juntadeandalucia.es/boja/boletines/2006/117/d/1.html>

### **Order de 9 june 2006**

Environmental Protection. Establishment of the regulatory basis for the granting of subsidies for investments in infrastructure and facilities for environmental protection, and announces support for the implementation of actions that are cited in the single additional provision.

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<http://www.juntadeandalucia.es/boja/boletines/2006/126/d/4.html>

### **Order 18 january 2006**

Noise Pollution. Develop the content of the quality system accreditation in terms of noise pollution.

<http://www.juntadeandalucia.es/boja/boletines/2006/24/d/13.html>

### **Order 10 october 2005**

Entrepreneurs-Business-Environment. Establishes the regulatory bases for the award of grants for the improvement of environmental control in the company.

<http://www.juntadeandalucia.es/boja/boletines/2005/219/d/5.html>

### **Act 94/2003, 8 april**

Environmental Protection. Specific amendment to the Annexes of Act 292/1995 of 12 December, which approves the Regulation of Environmental Impact Assessment of the Autonomous Community of Andalusia and the Act 153/1996 of 30 April, by which approving the Regulations on Environmental Report, the network of protected natural areas of Andalusia and its registry.

<http://www.juntadeandalucia.es/boja/boletines/2003/79/d/8.html>

### **Order 30 september 2002**

Procedure for prioritizing access and connection to the electricity grid for evacuation of power generation facilities referred to in Royal Decree 2818/1998, of 23 december, on the production of electric energy resources or facilities supplied by renewable energy sources, waste and cogeneration.

<http://www.juntadeandalucia.es/boja/boletines/2002/124/d/4.html>

### **Law 9/2001, 12 july**

It sets the direction of administrative silence and timing of certain procedures for procedural safeguards for citizens.

[http://www.boe.es/aeboe/consultas/bases\\_datos/doc.php?id=BOE-A-2001-15556](http://www.boe.es/aeboe/consultas/bases_datos/doc.php?id=BOE-A-2001-15556)

### **Resolution 20 october 2000**

Environmental Protection. Regulates the preparation of Sectoral Plans for environmental inspections in Andalusia.

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### **Order 10 november 1999**

Environmental Protection. Establishment of inspection plans in environmental matters.

<http://www.juntadeandalucia.es/boja/boletines/1999/141/d/4.html>

### **Act 12/1999, 26 january**

Regional Ministry of Environment. Regulation of the Collaborating Entities of the Ministry of Environment on Environmental Protection.

<http://www.juntadeandalucia.es/boja/boletines/1999/25/d/5.html>

### **Act 57/1995, 7 march**

Environment. Creation of Environmental Advisory Council.

<http://www.juntadeandalucia.es/boja/boletines/1995/47/d/1.html>

### **Resolution 8 july 2003**

Modification of the conditions for the adaptation of hospitality and leisure activities on terraces or outdoor spaces to Act 78/2002, for implementation of the Municipal Order of Activities and Environmental Protection on noise and vibration.

[http://www.coaat-se.es/varios/ficheros\\_normativa/resoluci%C3%B3n%208-7-03.pdf](http://www.coaat-se.es/varios/ficheros_normativa/resoluci%C3%B3n%208-7-03.pdf)

### **Ordinance about the Energy Plan for Housing in Seville**

Regulatory Framework

- The Local Agency in Seville appears in 1997.
- Adopted on 29 May 2002.
- Software for the home energy rating (ECV energy efficiency rating of housing).
- Score 1 to 10. Min 7 points.
- ECertificate (IIE energy adequacy report).
- Delivery with project implementation.
- Delivery of IIE in the local energy agency.

[http://www.gasnaturalfenosa.com/servlet/ficheros/1297092729155/761%5C924%5CSevilla\\_ES\\_ReguladoGas\\_ES,1.pdf](http://www.gasnaturalfenosa.com/servlet/ficheros/1297092729155/761%5C924%5CSevilla_ES_ReguladoGas_ES,1.pdf)

### **Ordinance 15 april 1999**

Provincial Ordinance for rational and efficient use of Energy, Renewable Energy and Environment. 20/4/2000 Final Approval.

[http://www.coaat-se.es/varios/ficheros\\_normativa/ordenanza%2015-4-99.pdf](http://www.coaat-se.es/varios/ficheros_normativa/ordenanza%2015-4-99.pdf)

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## **Ordinance de 16 de june de 1999**

Ordinance of Woodland, Parks and Public Gardens in the city of Seville.

[http://www.coaat-se.es/varios/ficheros\\_normativa/ordenanza%2016-6-99.pdf](http://www.coaat-se.es/varios/ficheros_normativa/ordenanza%2016-6-99.pdf)

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