

## Water technology

---

### 1. Extension of plant for water supply in Markt Maßbach by an ultrafiltration

execution 2005

**256** digital / analogue **in-/ outputs** (decentralised configuration)

- 4** programmable controllers Schneider Telemecanique **TSX Compact**  
HMI: visualisation (**ProconWin GTI**) redundant configuration,  
networking via **Ethernet TCP/IP, Modbus**

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation
- execution of a telecontrol link via **broad-band cable network** with telecontrol system **GEADAT** of Schneider Telemecanique
- installation and commissioning

---

### 2. Plant for water supply 2nd extension district control centre Volkach, FWF

execution 2003 - 2004

**460** digital / analogue **in-/ outputs** (decentralised configuration)

- 7** programmable controllers SIMATIC **S7/400** and **S7/300**

- manufacturing of electrical switchboards - creation of control software and software regulations
- execution of a telecontrol link via modem/dedicated line with **CP340 / CP441**
- installation and commissioning

---

### 3. Extension of plant for water supply in Markt Maßbach by a chlorine dosage plant

execution 2003

**48** digital / analogue **in-/ outputs** (decentralised configuration)

- 1** programmable controllers Schneider Telemecanique **TSX Compact**  
HMI: visualisation (**ProconWin GTI**) redundant configuration,  
networking via **Ethernet TCP/IP, Modbus**

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation
- execution of a telecontrol link via **broad-band cable network** with telecontrol system **GEADAT** of Schneider Telemecanique
- installation and commissioning

---

### 4. Plant for water supply 1st extension district control centre Volkach, FWF

execution 2002 - 2003

**500** digital / analogue **in-/ outputs** (decentralised configuration)

- 8** programmable controllers SIMATIC **S7/400** und **S7/300**

- manufacturing of electrical switchboards
- creation of control software and software regulations

# List of references



04.04.2005

page 2 of 5

## Water technology

- execution of a telecontrol link via modem/dedicated line with **CP340 / CP441**
  - installation and commissioning
- 

### 5. Extension of plant for water supply public utility company Hammelburg

execution 2001 - 2002

- 1700** digital / analogue **in-/ outputs** (decentralised configuration)
- 21** programmable controllers SIMATIC **S7/400** and **S7/300**
- 8 frequency converters**, soft starters
- HMI: visualisation (**Schraml Aqasys**)
- networking via **Ethernet TCP/IP, Profibus DP**

- engineering and manufacturing of electrical switchboards
  - creation of control software, software regulations and visualisation
  - execution of a telecontrol link via modem/dedicated line and telephone network with **SINAUT ST1, ST7, LSA**
  - installation and commissioning
- 

### 6. Extension of plant for water supply, Markt Maßbach

execution 2002

- 320** digital / analogue **in-/ outputs** (decentralised configuration)
- 6** programmable controllers Schneider Telemecanique **TSX Compact**
- 2 frequency converters** for pump control
- HMI: visualisation (**ProconWin GTI**) redundant configuration,
- networking via **Ethernet TCP/IP, Modbus**

- engineering and manufacturing of electrical switchboards
  - creation of control software, software regulation and visualisation
  - execution of a telecontrol link via **broad-band cable network** with telecontrol system **GEADAT** of Schneider Telemecanique
  - **telemonitoring** via WAN / LAN
  - long-time **data listing according to ATV** with Acron
  - automatic **operator message** via mobile phone when malfunctions
  - installation and commissioning
- 

### 7. Extension of plant for waste water treatment, city of Würzburg

execution 2002

- 250** digital / analogue **in-/ outputs** (decentralised configuration)
- 1** programmable controller ABB Procontic **T200** with extension **CS31**

- engineering and manufacturing of electrical switchboards
- creation of control software
- installation and commissioning

## Water technology

---

### 8. Plant for water supply, Markt Maßbach

execution 1999 - 2000

- 450 digital / analogue in-/ outputs (decentralised configuration)
- 8 programmable controllers Schneider Telemecanique **TSX Compact**
- 2 soft starters
- HMI: visualisation (**ProconWin GTI**) redundant configuration
- networking via **Ethernet** TCP/IP, **Modbus**

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation
- execution of a telecontrol link via **broad-band cable network** with telecontrol system **GEADAT** of Schneider Telemecanique
- **telemonitoring** via WAN / LAN
- long-time **data listing according to ATV** with Acron
- automatic **operator message** via mobile phone when malfunctions
- installation and commissioning

---

### 9. Plant of water supply, city of Hammelburg

execution 1999 - 2000

- 1250 digital / analogue in-/ outputs (decentralised configuration)
- 15 programmable controllers SIMATIC **S7/400** and **S7/300**
- HMI: visualisation (**Schraml Aqasys**)
- networking with **Ethernet** TCP/IP

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation
- execution of a telecontrol link via dedicated line and telephone network with **SINAUT** ST1, ST7
- installation and commissioning

---

### 10. Plant for waste water treatment, city of Würzburg

execution 1999 - 2000

- 70 digital / analogue in-/ outputs (decentralised configuration)
- 1 programmable controller ABB Procontic **T200** with extension **CS31**

- engineering and manufacturing of electrical switchboards
- creation of control software
- installation and commissioning

---

### 11. Plant for water supply, city of Aschaffenburg

execution 1998 – 1999

execution 1993 - 1995

- 3600 digital / analogue in-/ outputs (decentralised configuration)
- 36 programmable controllers SIMATIC **S5/155U**, **S5/135U**, **S5/115U** and **S5/103U**
- 2 frequency converters,
- HMI: operator terminals (Siemens), **OP37**

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation

## Water technology

- execution of a telecontrol link via modem/dedicated line with **CP525 / CP521**
- installation and commissioning

---

### 12. Plant for water supply, Bad Königshofen

execution 1997 - 1999

- 550** digital / analogue in-/ outputs (decentralised configuration)
- 6** programmable controllers SIMATIC **S5/135U**, **S5/103U** and **S7/300**
- HMI: visualisation (**Schraml Aqasys**)

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation
- execution of a telecontrol link **CP525 / CP521 / CP340**
- installation and commissioning

---

### 13. Plant for water supply

district control centre Hüttenheim, FWF

execution 1997 - 1999

- 3100** digital / analogue in-/ outputs (decentralised configuration)
- 16** programmable controllers SIMATIC **S5/155U**, **S5/135U**, **S5/115U** and **S5/103U**
- HMI: operator terminals (Siemens), **OP37**

- engineering and manufacturing of electrical switchboards
- creation of control software, software regulation and visualisation
- execution of a telecontrol link via modem/dedicated line with **CP525 / CP521**
- installation and commissioning

---

### 14. Rain spillway plant 225, city of Würzburg

execution 1998

- 550** digital / analogue in-/ outputs (decentralised configuration)
- 1** programmable controller ABB Procontic **T200** with extension **CS31**

- engineering and manufacturing of electrical switchboards
- creation of control software
- installation and commissioning

---

### 15. Plant for water treatment in Willmars, RMG

execution 1995 - 1996

- 900** digital / analogue in-/ outputs (decentralised configuration)
- 4** programmable controllers SIMATIC **S5/135U** and **S5/103U**

- engineering and manufacturing of electrical switchboards
- creation of control software,
- execution of a telecontrol link with **SINAUT ST1**
- installation and commissioning

# List of references



04.04.2005

page 5 of 5

## Water technology

---

### 16. Plant for water supply in Premich/ Gefäll, RMG

execution 1995 - 1996

**300** digital / analogue in-/ outputs (decentralised configuration)

**5** programmable controllers SIMATIC **S5/135U** and **S5/103U**

- engineering and manufacturing of electrical switchboards
  - creation of control software
  - execution of a telecontrol link with **SINAUT ST1 / RX**
  - installation and commissioning
-